

Fig 1A

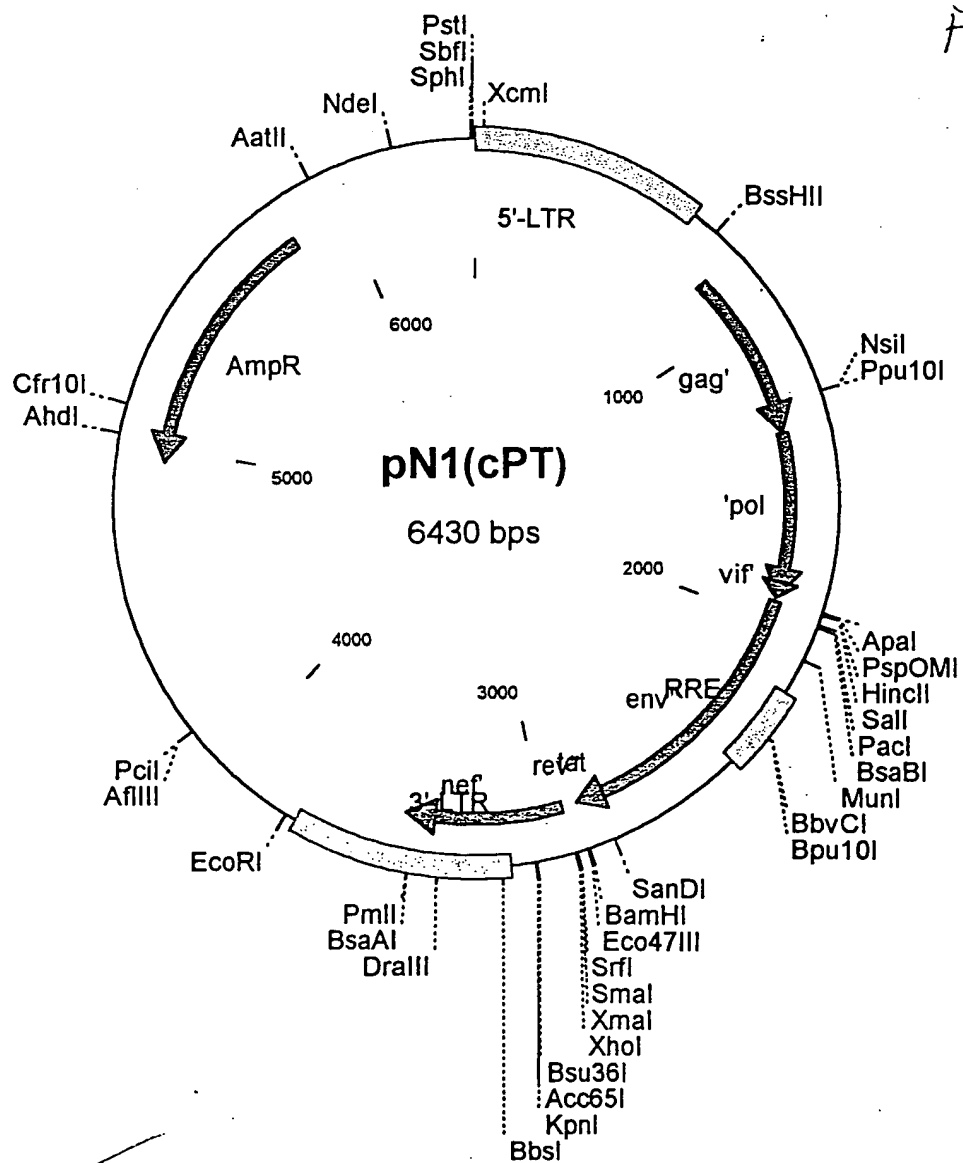


Fig 1B

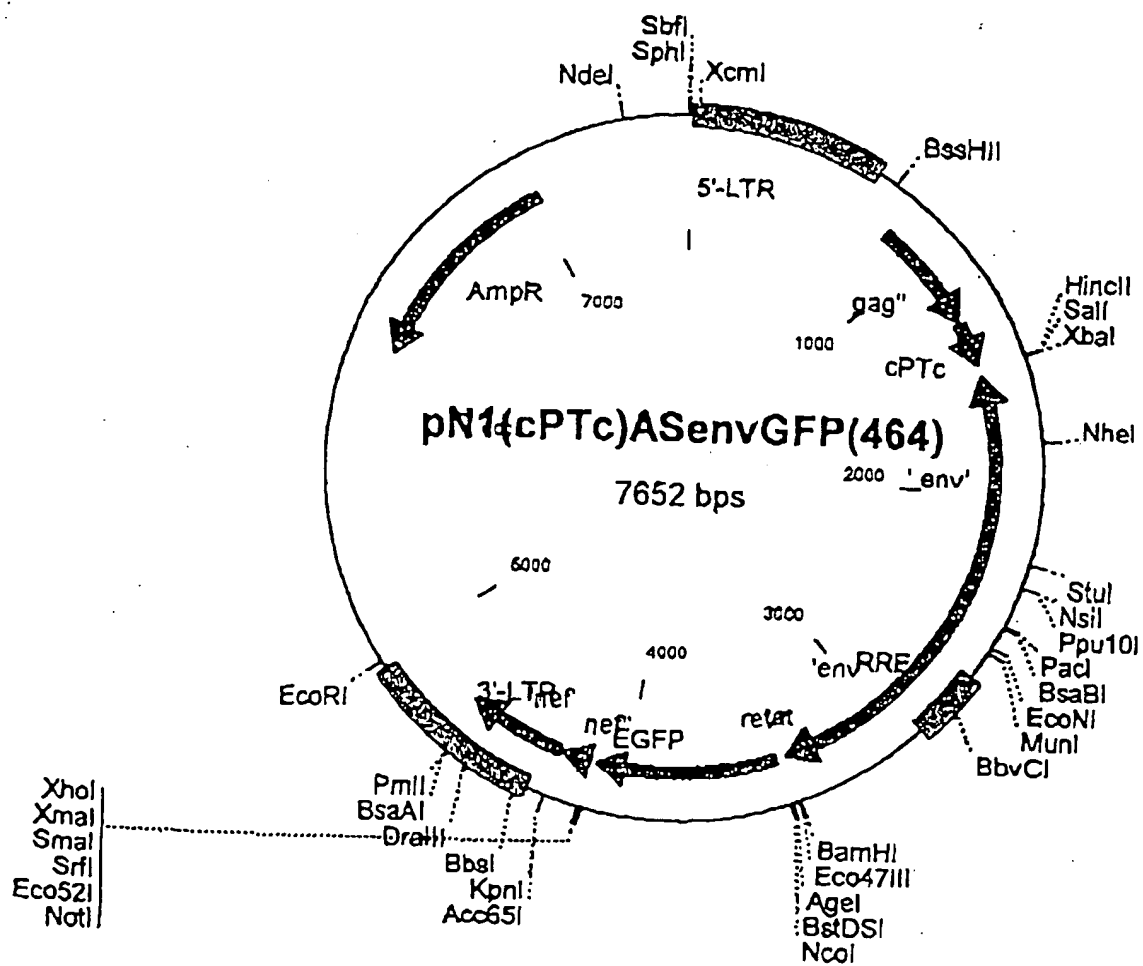


Fig 1C

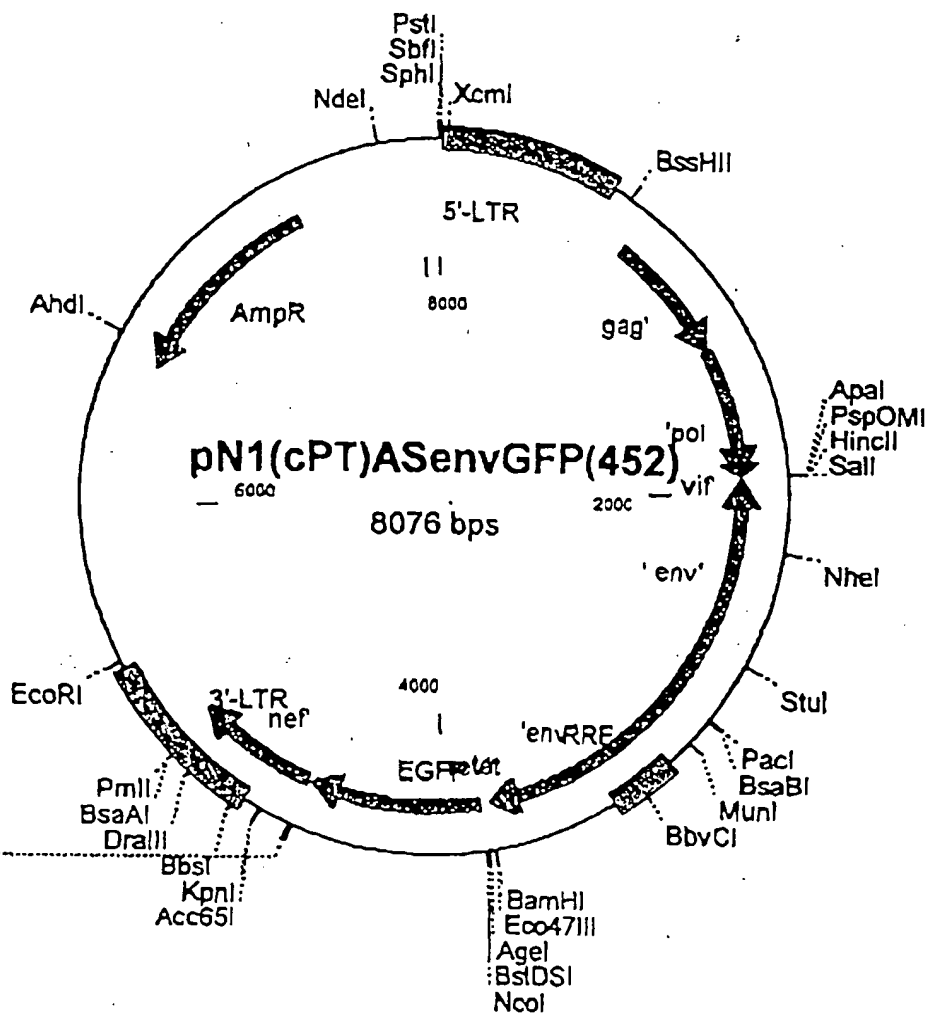
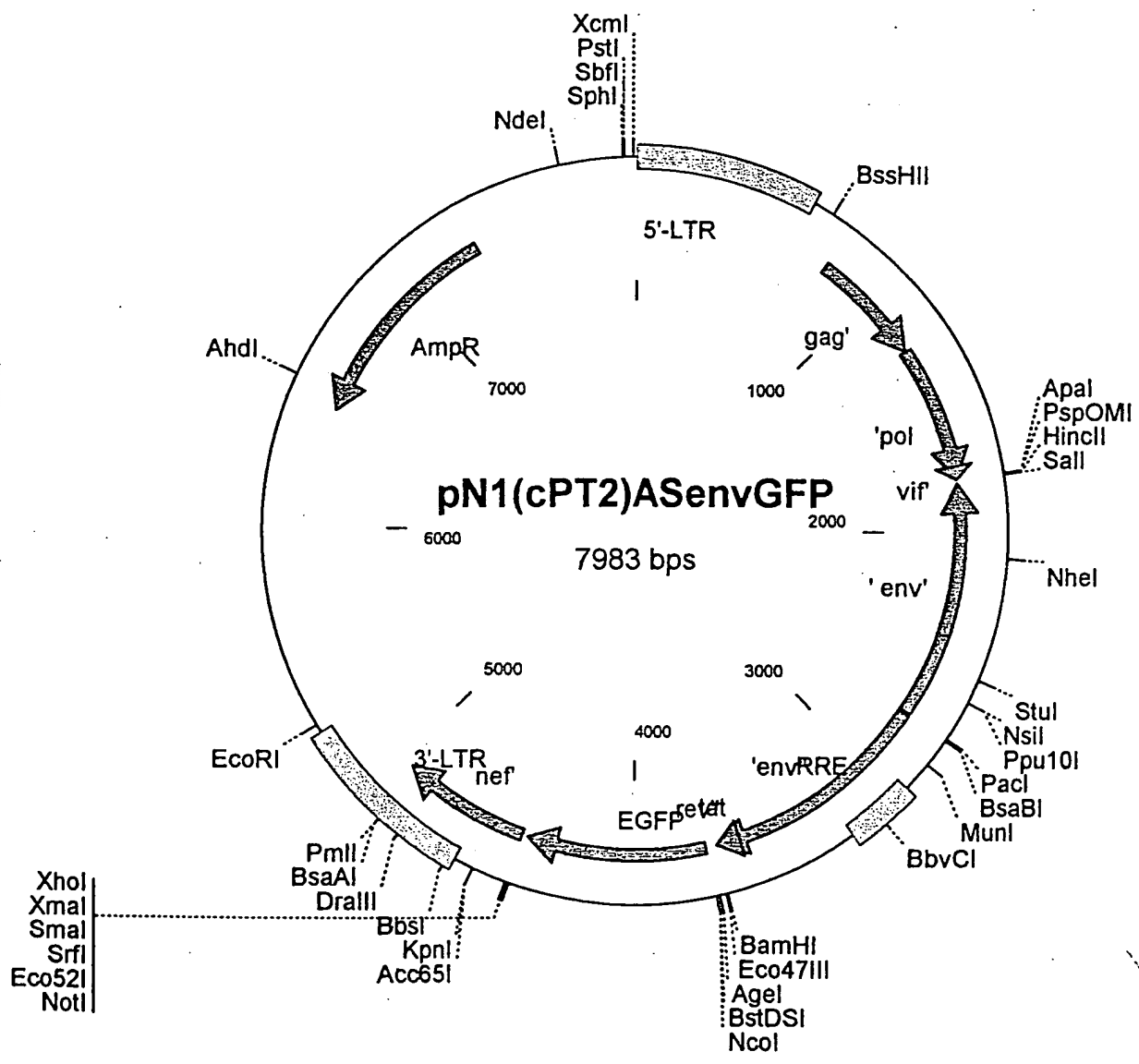


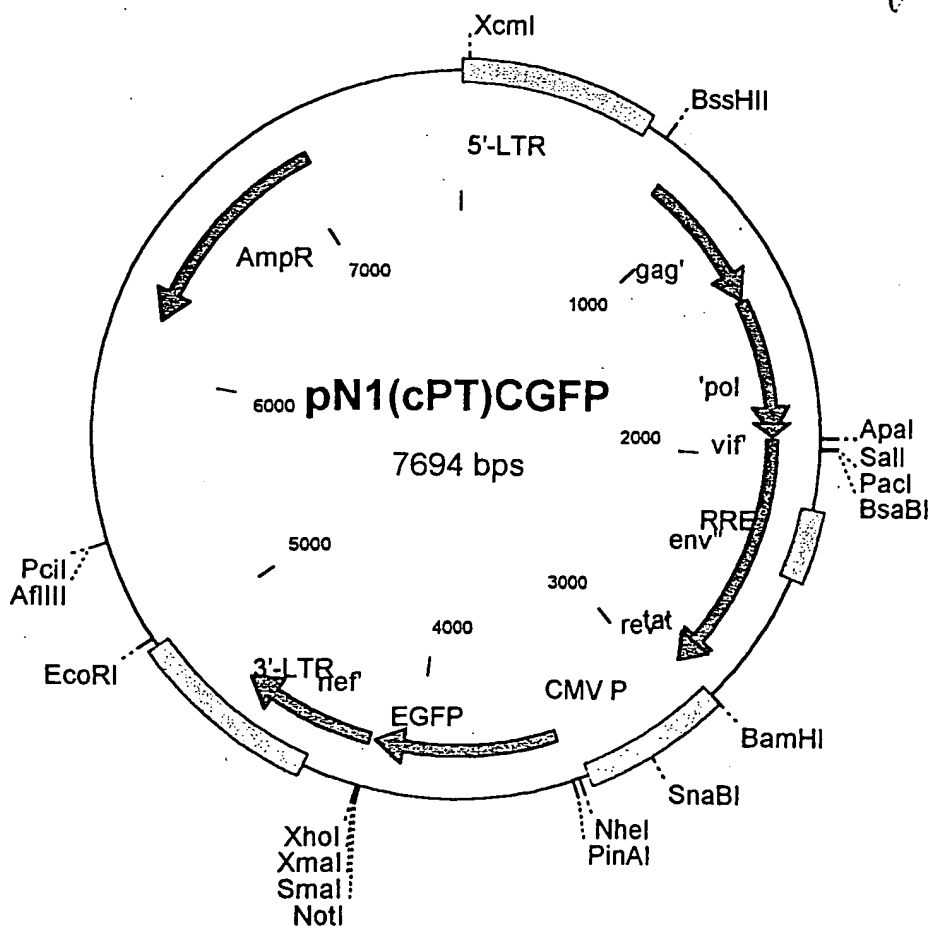
Fig 1D

09849484.03634



03245431 032704
FOI 2025-03-27

Fig 1E



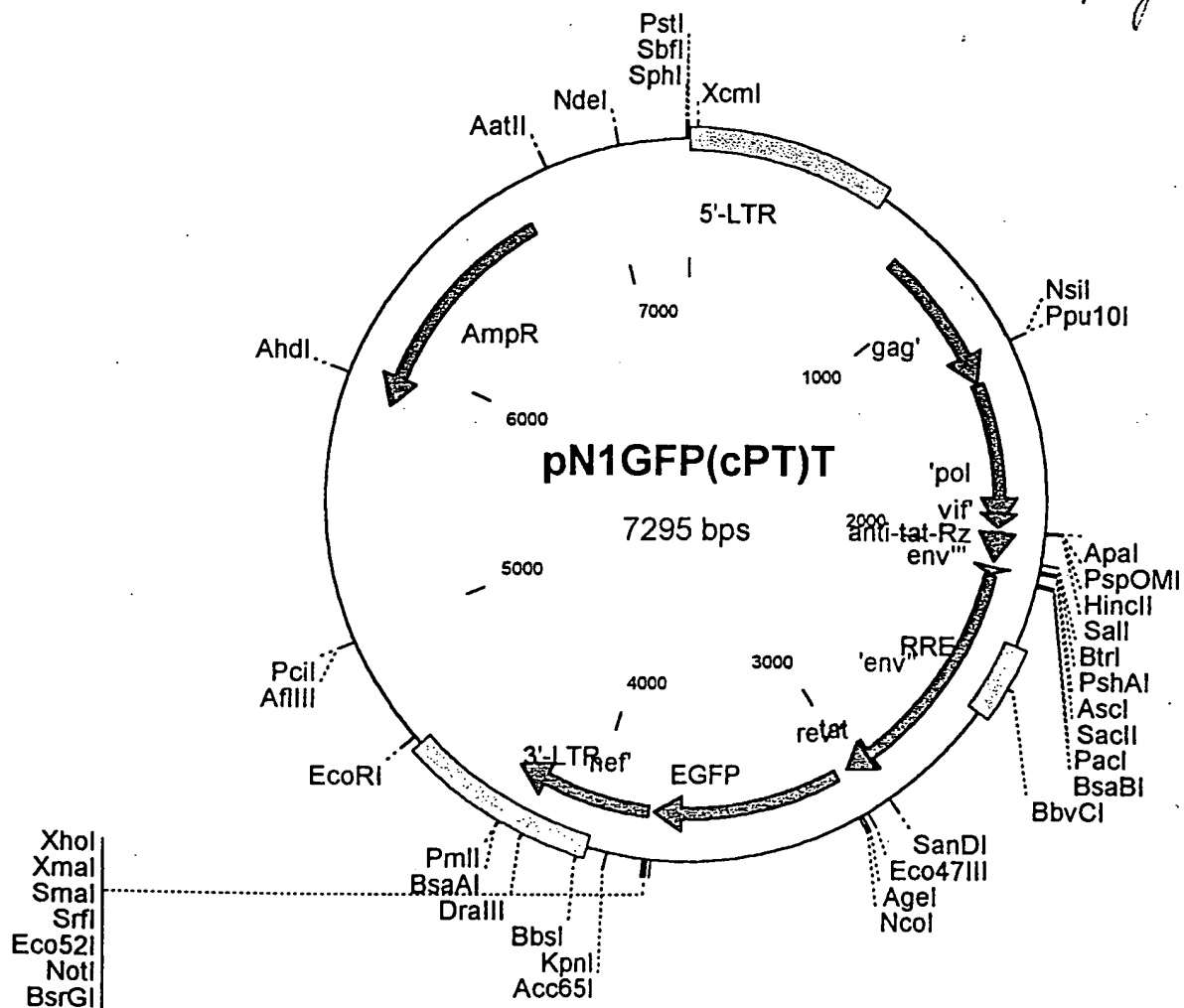
[illegible]

Fig 16

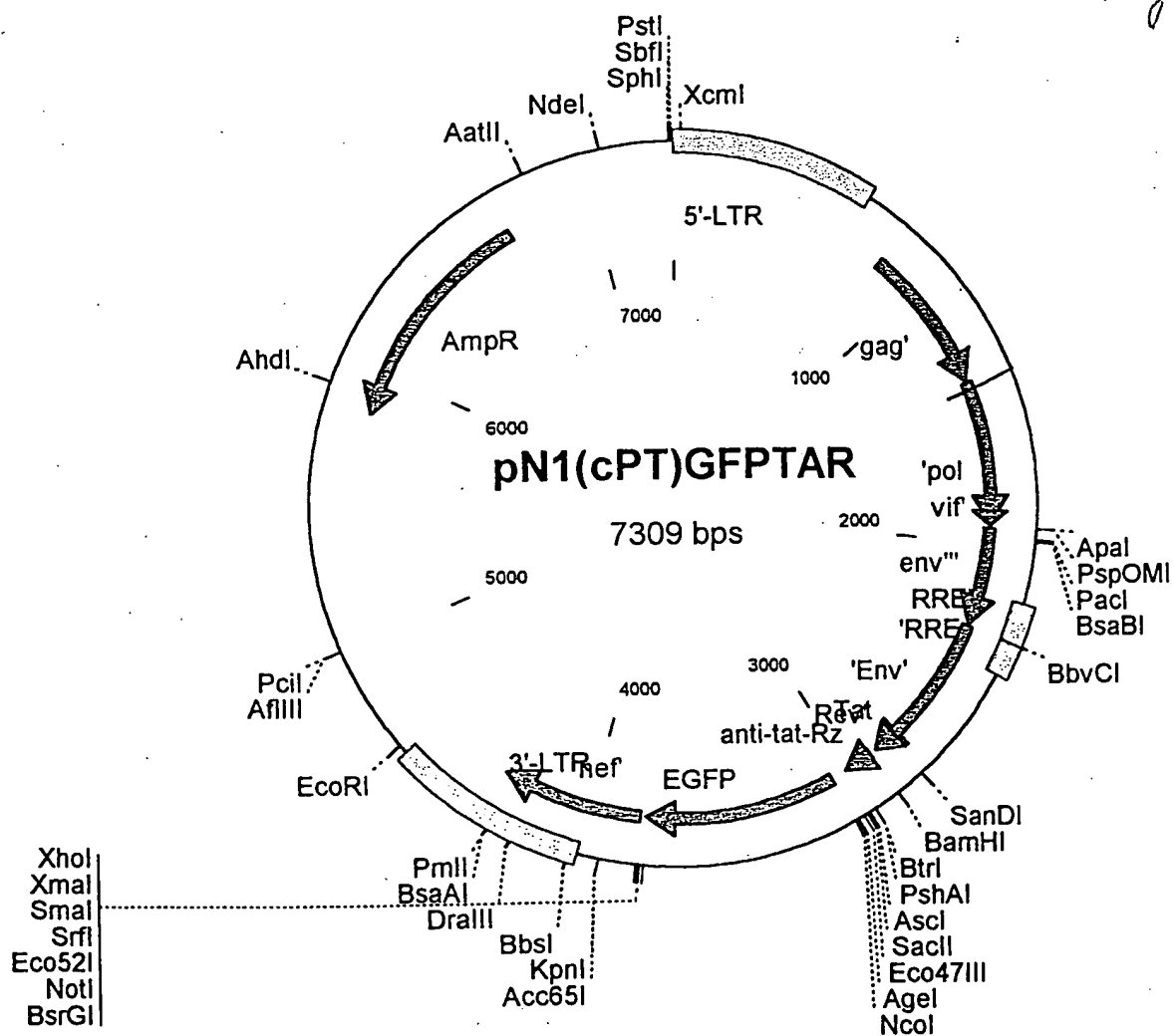
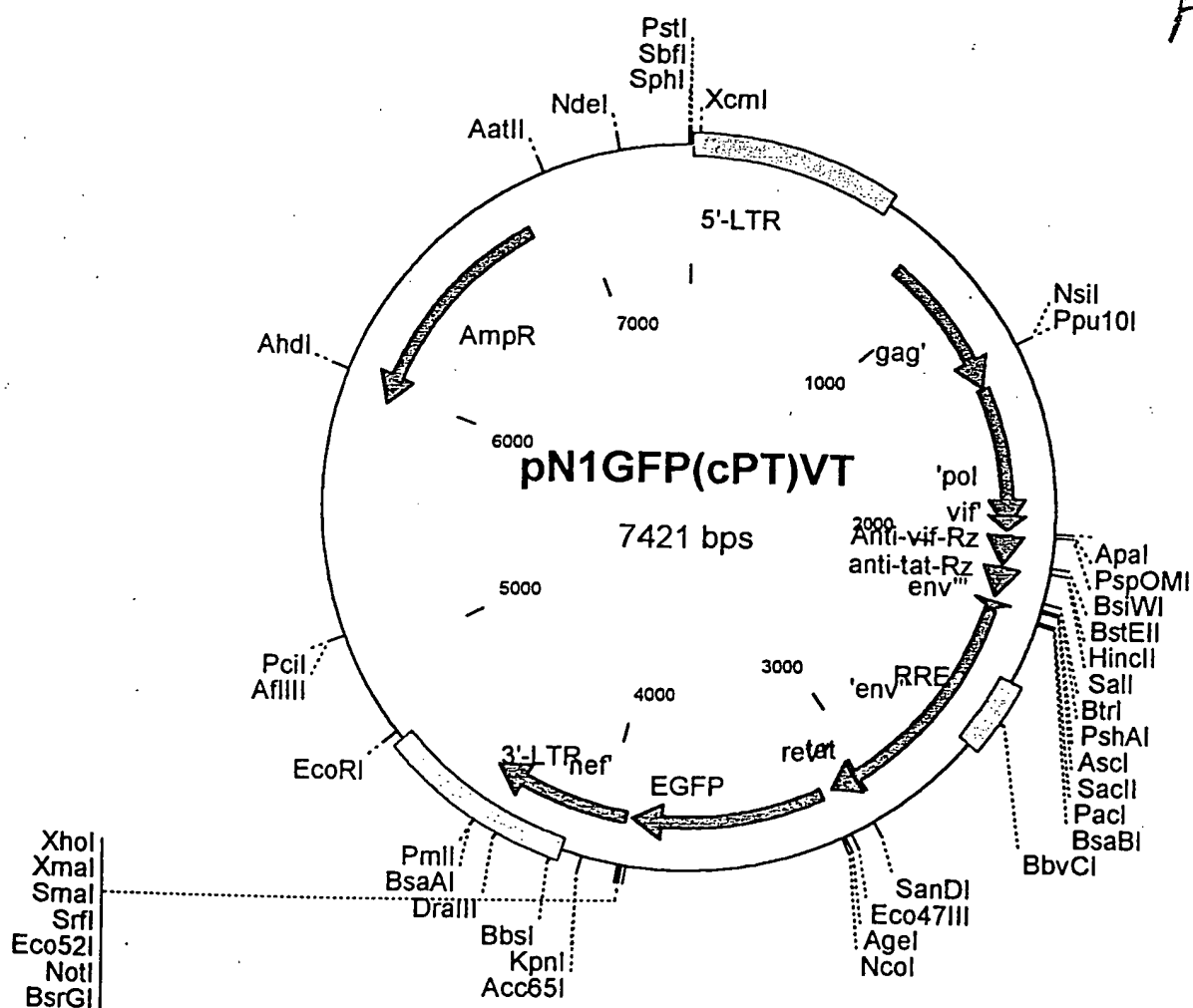
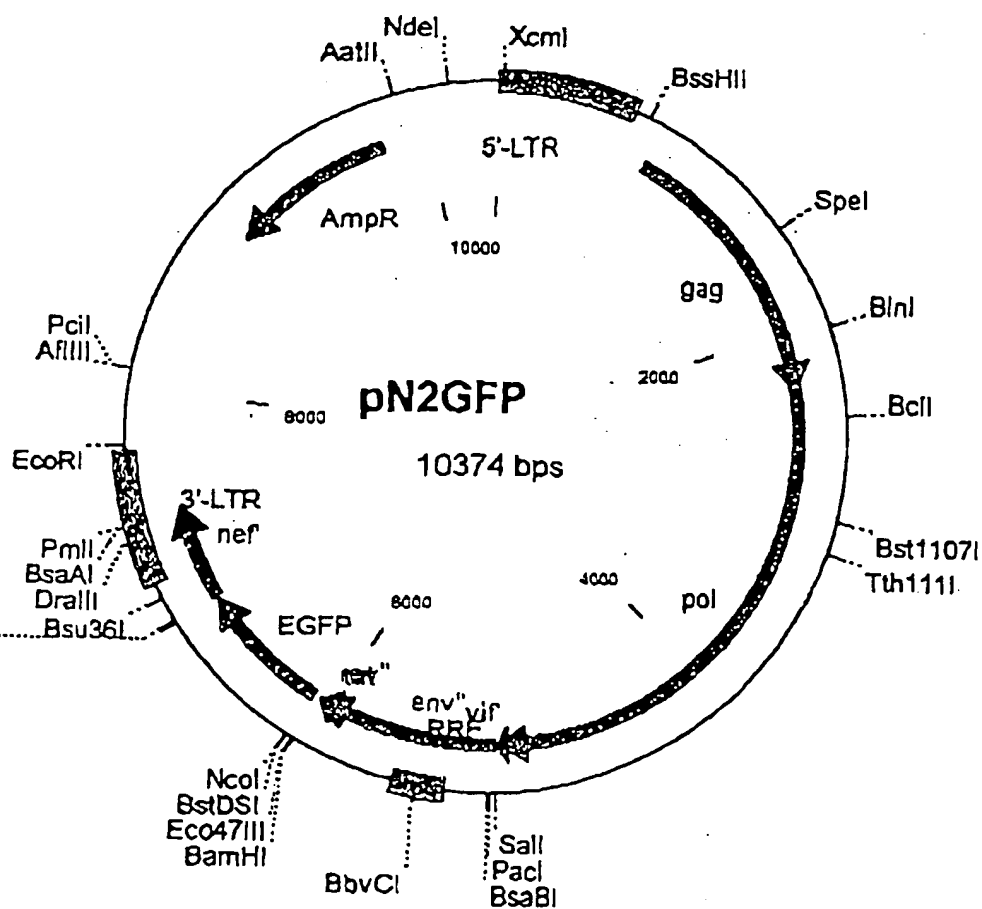
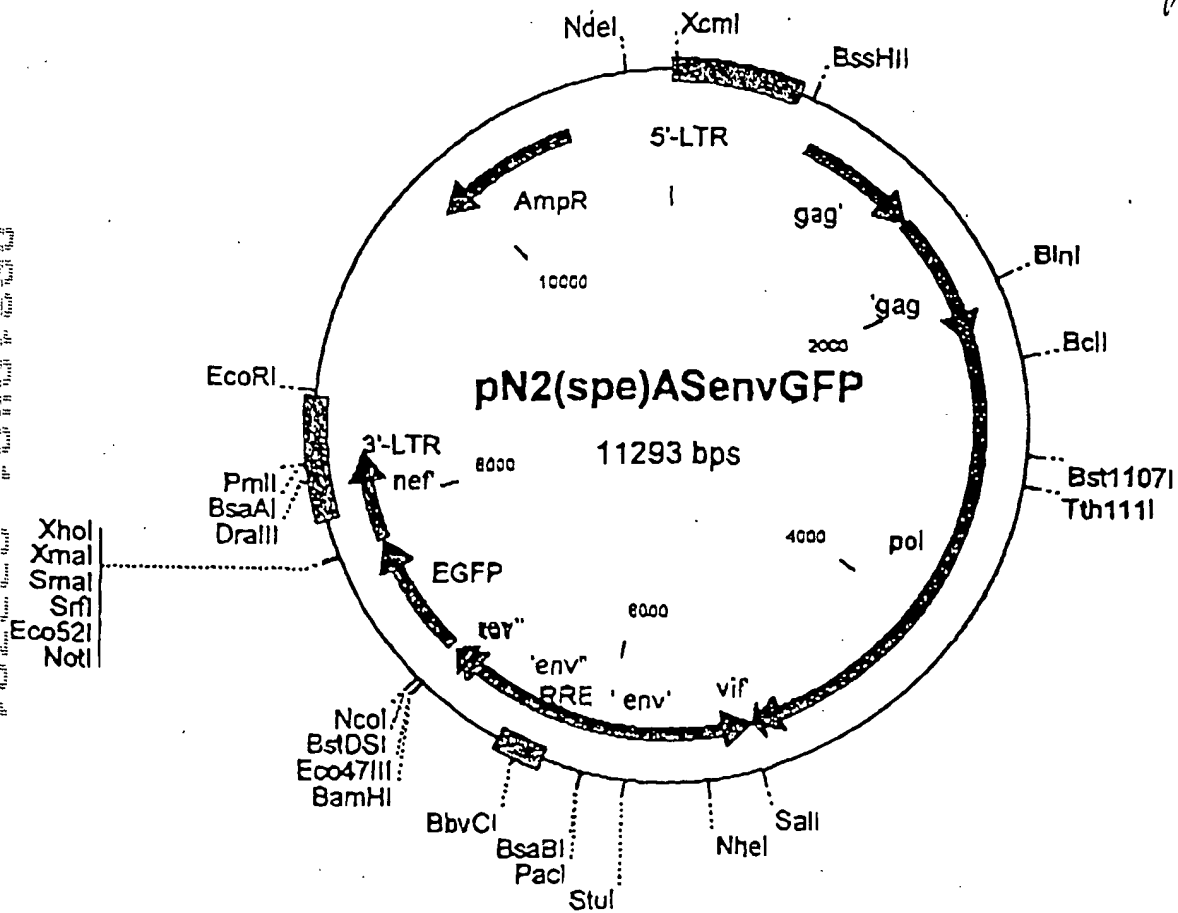


Fig 1H



Under the heading of "The Role of the State in the Development of the Economy," the author discusses the importance of the state in the development of the economy. The author argues that the state should play a leading role in the development of the economy, and that it should be responsible for the creation of a favorable environment for the development of the economy. The author also discusses the importance of the state in the development of the economy, and that it should be responsible for the creation of a favorable environment for the development of the economy.



[illegible]

A +105 GTGTGCCCCGTCTG +117

BAC...

A +118 TTGTGTGACTCTG +130

B

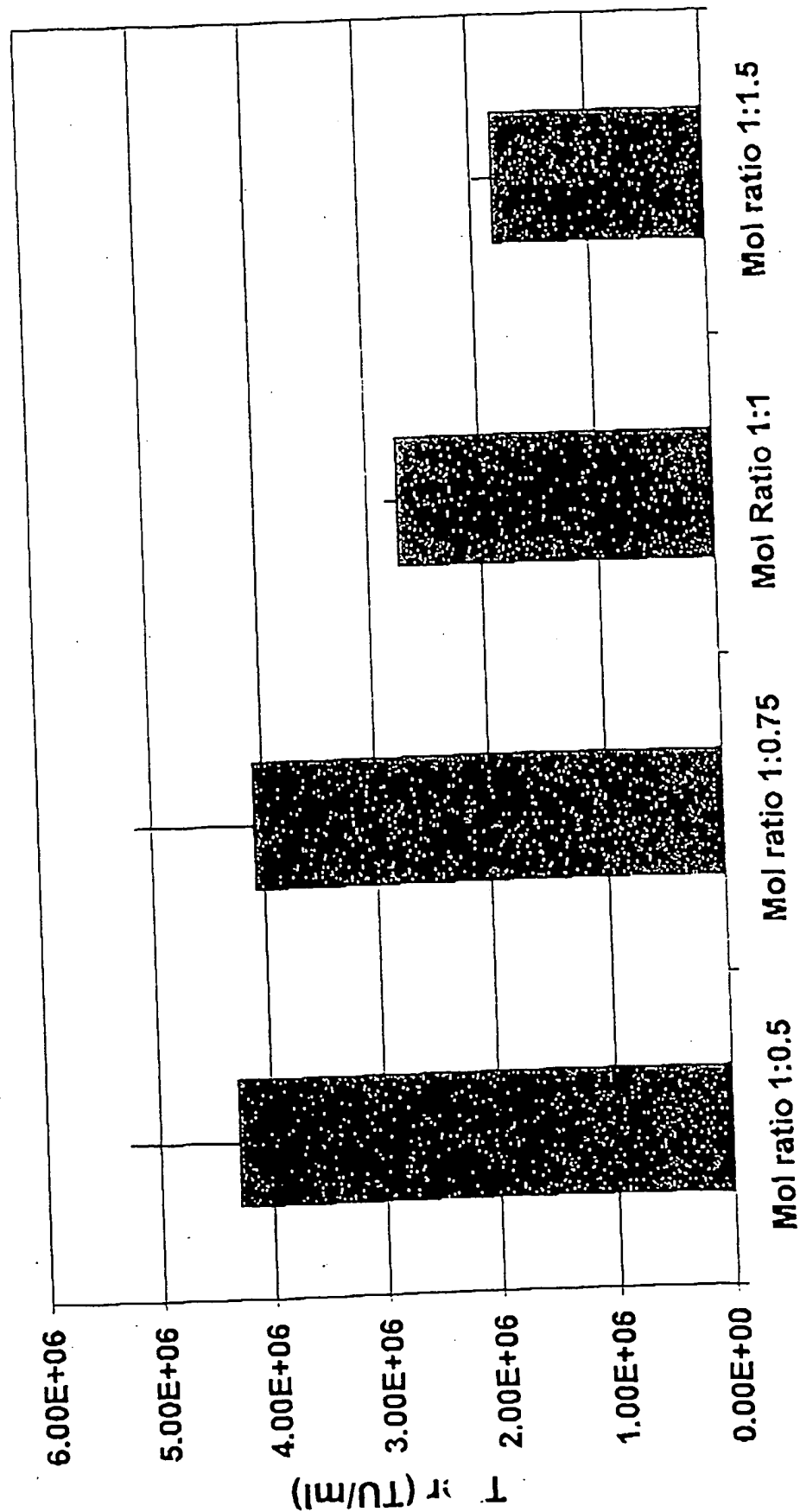
A +131 GTAAGTAGAGATC +143

B .C.G.....A.

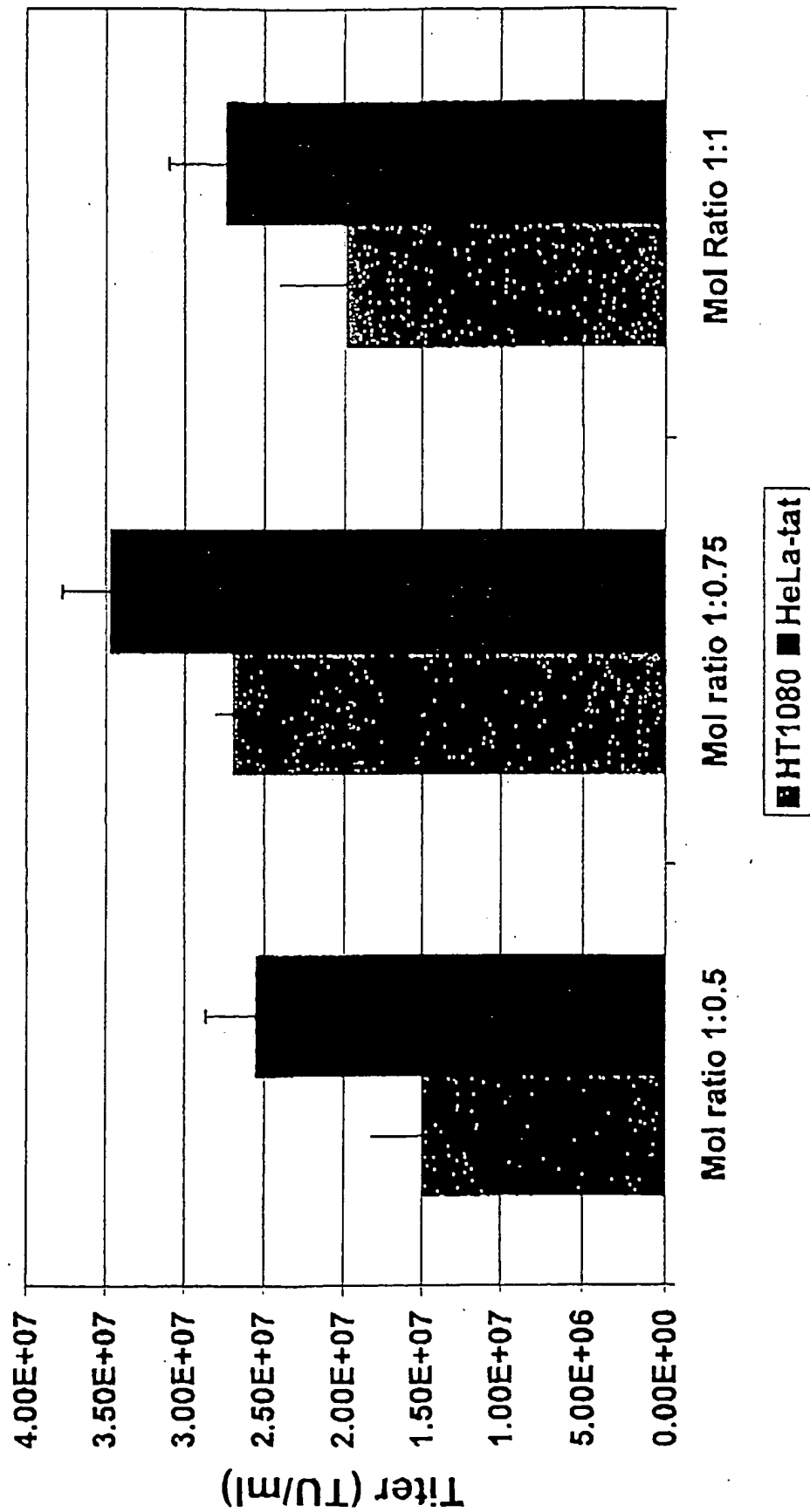
FIG. 2

004467260

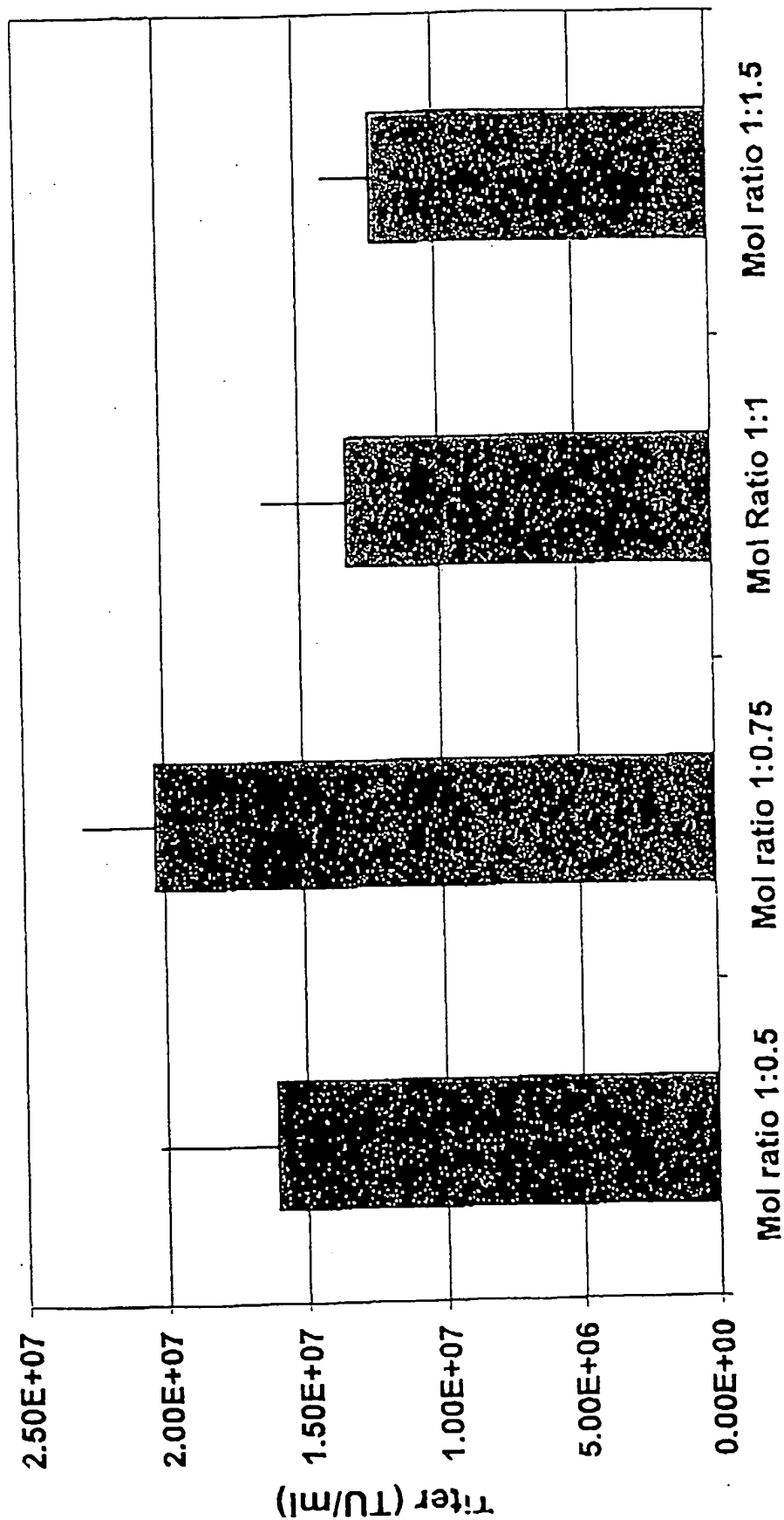
Ratio Optimization for pN1(cPTC)ASenvGFP Vector



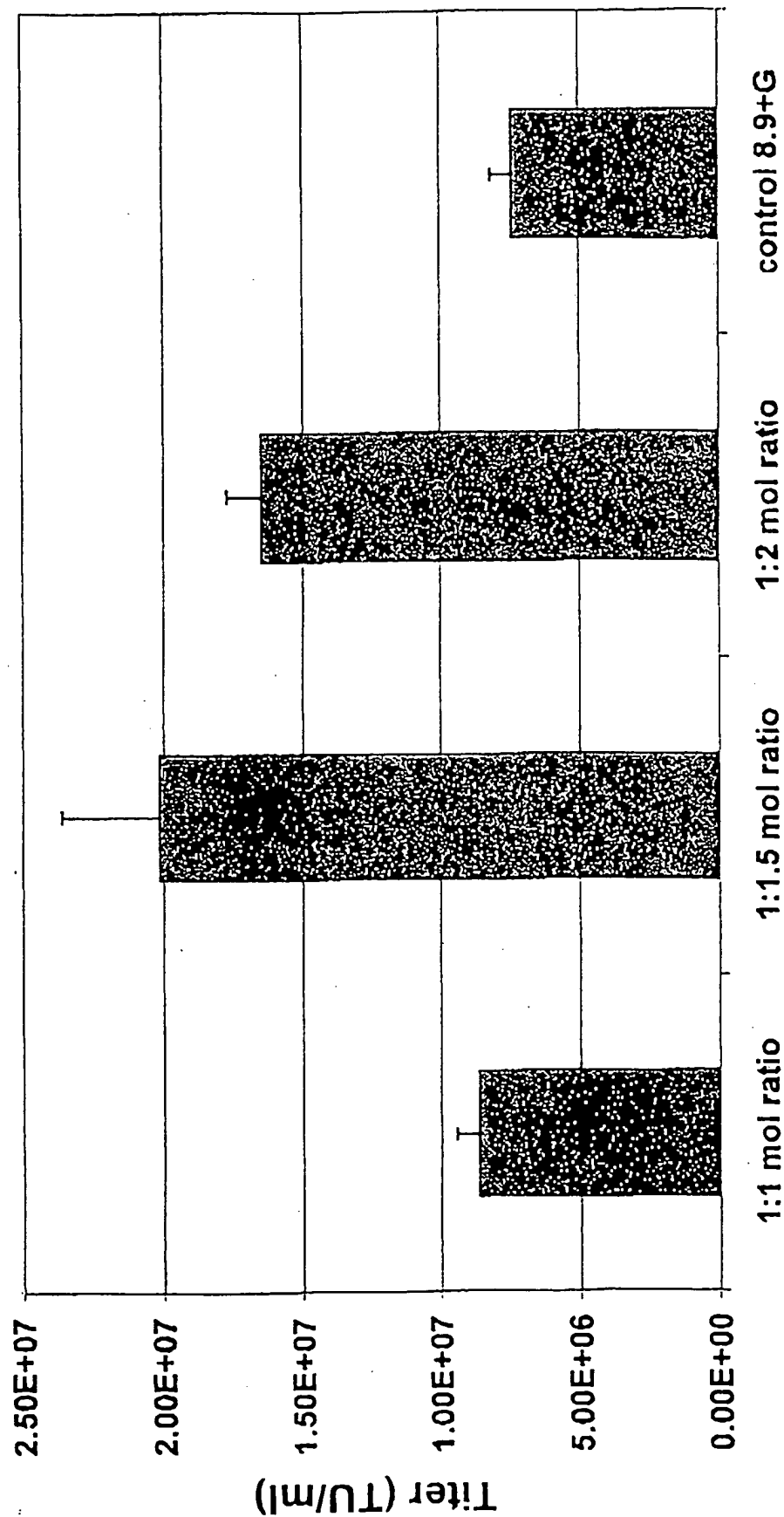
Ratio Optimization for pN1(cPT)GFP Vectors



Ratio Optimization for pN1(cPT2)ASenvGFP Vector



Best Vector to Packaging Ratio for pN1cGFP Vector



Optimization of vector to packaging ratio for pN2cGFP

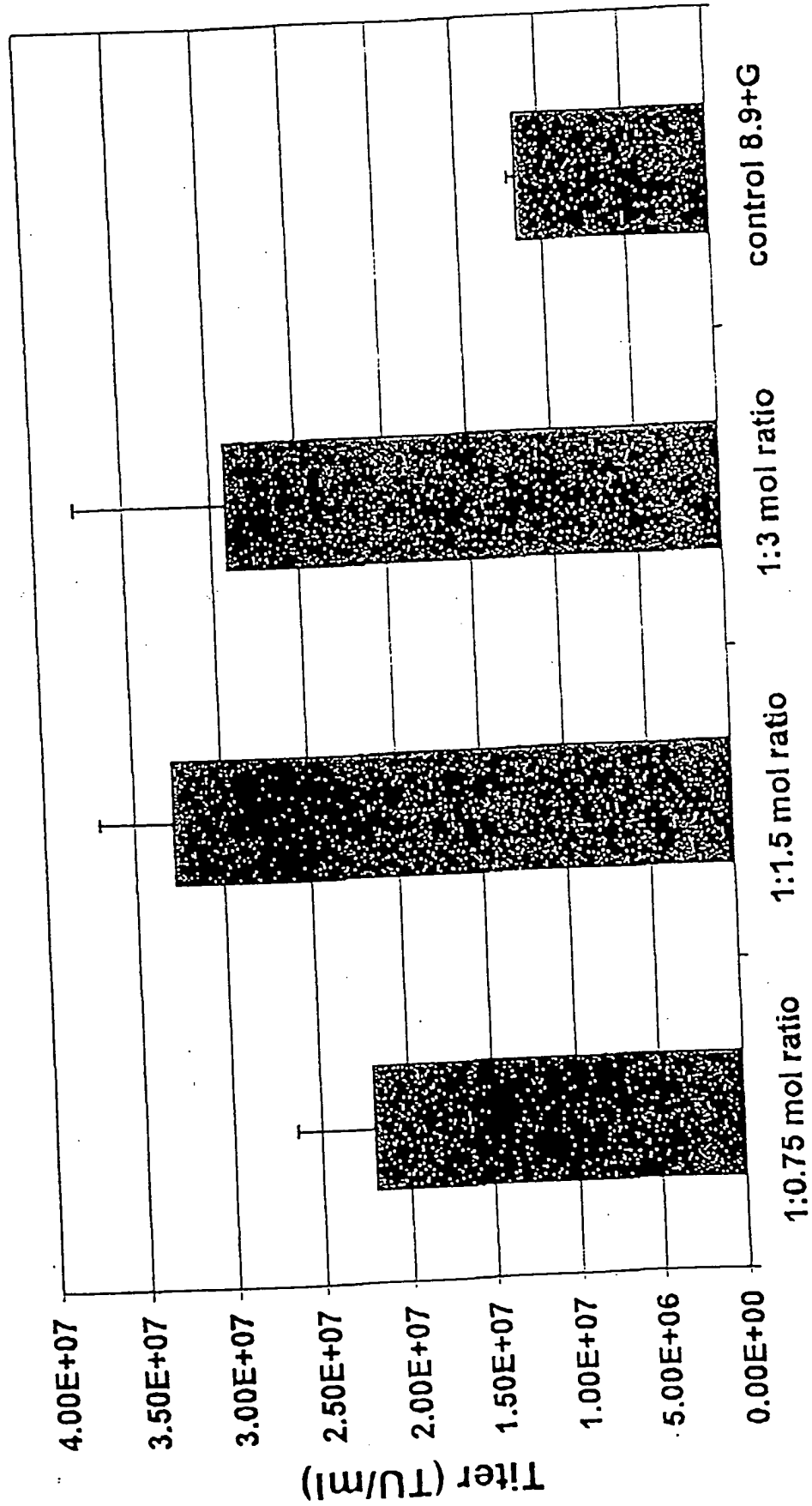
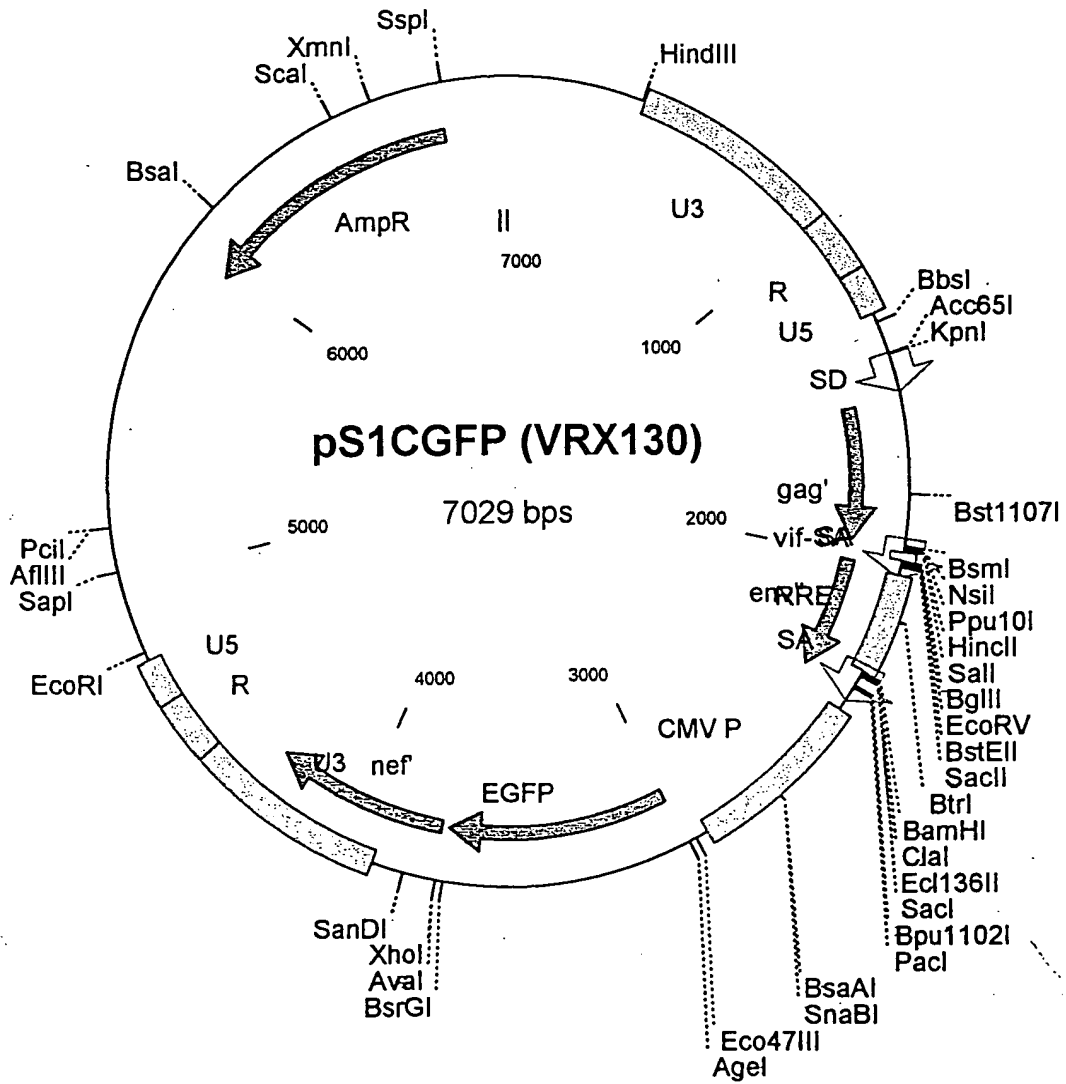
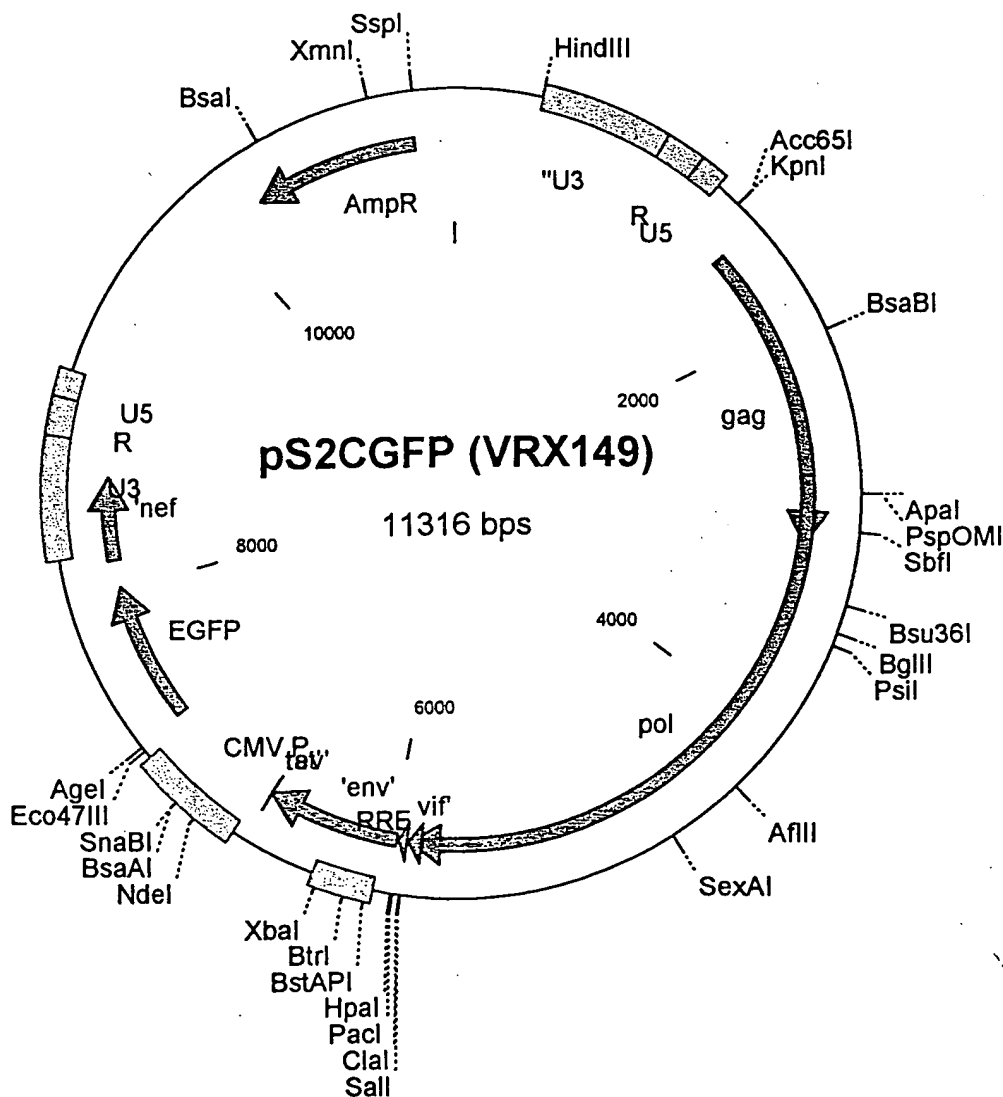


Fig 4A

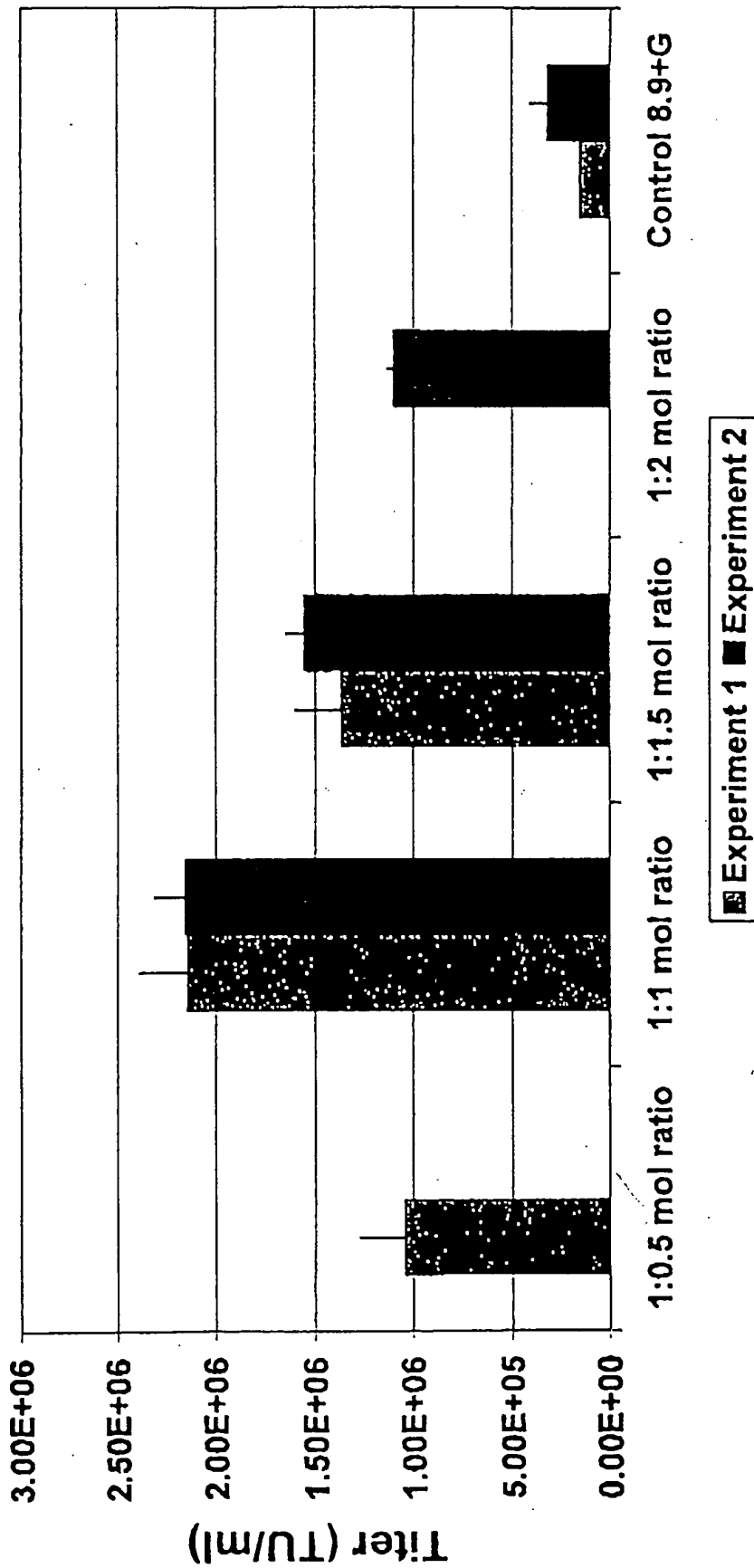


094946750

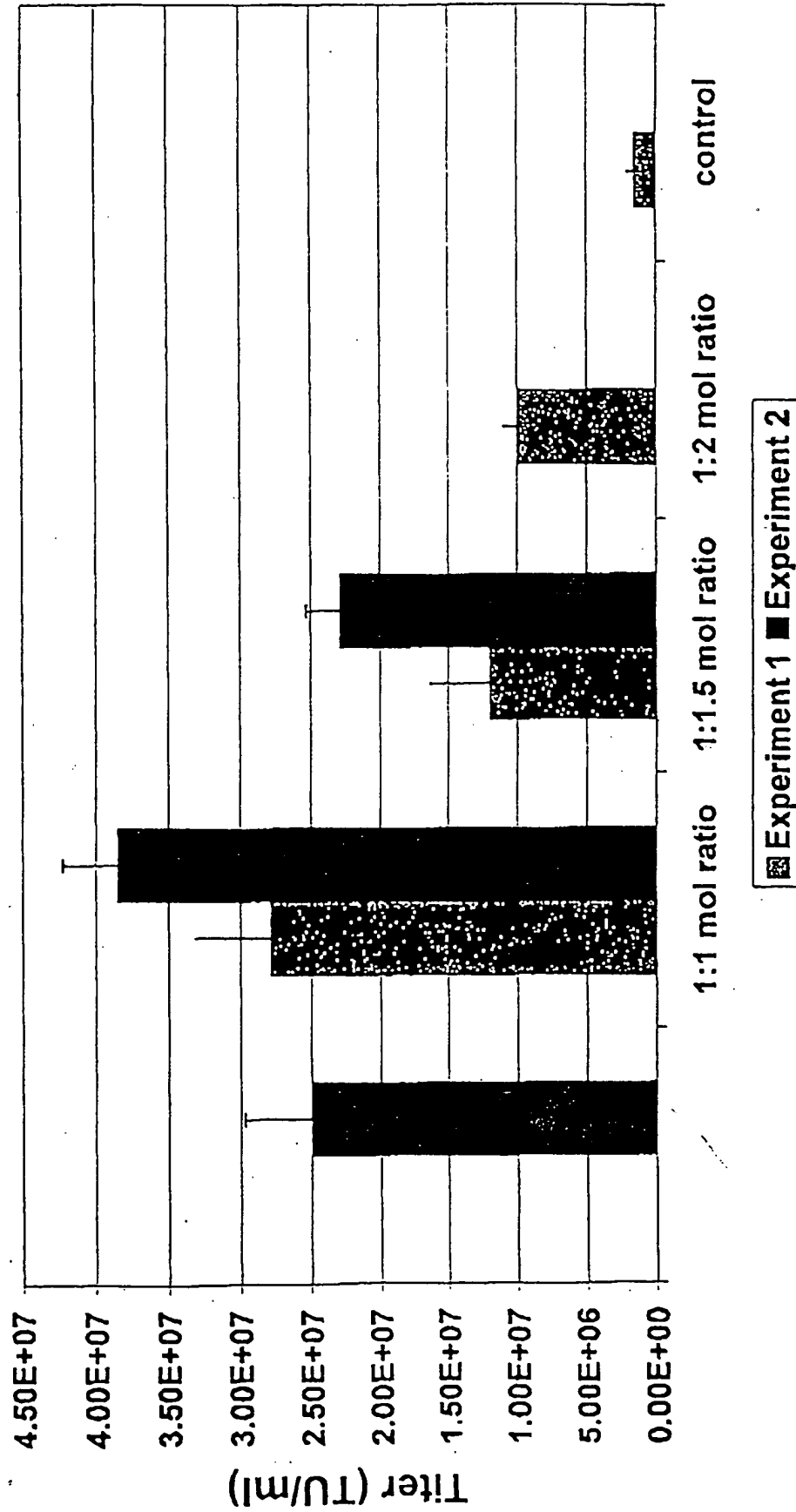
Fig 4B



Ratio Optimization for Packaging of pS1cGFP vectors.

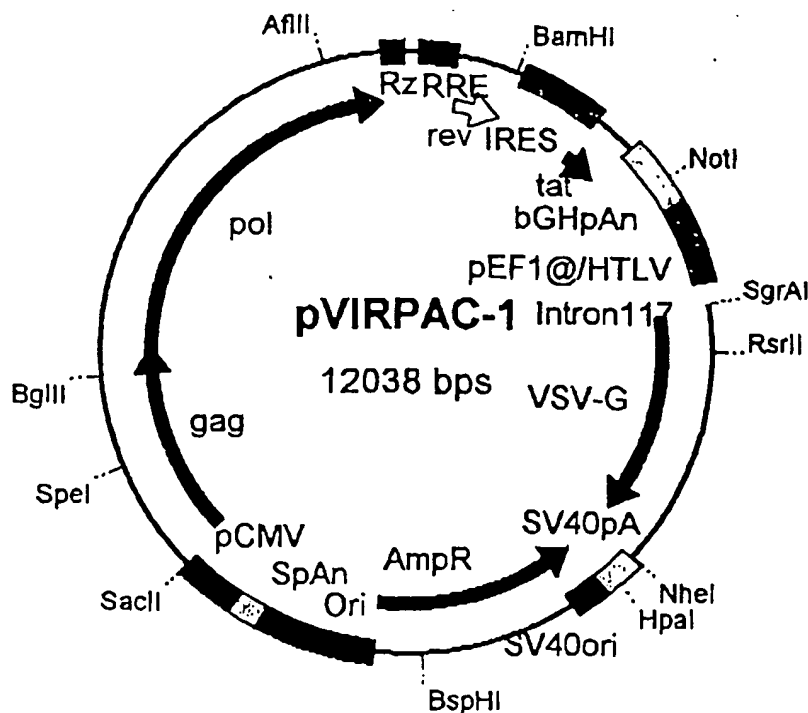


Optimization of vector to packaging ratio for pS2cGFP



6A

Packaging Construct



New features:

- First 42 nt of gag are degenerated.
- Tat and rev represented as cDNA.
- First 208 nt of rev and last 183 nt of tat are degenerated.
- RRE from HIV-2 is used instead of HIV-1 RRE.

These features eliminate almost any homology with the vector plasmid, make system safer.

- Anti-U5 ribozyme is expressed within gag/pol/RRE cassette, further improving safety.
- Gag/pol/rev/tat/RRE cassette and VSV-G expressed from the same plasmid. This feature may enhance packaging efficiency and titers of the vectors.

Fig. 6B Packaging Plasmid
for Second Generation
Vectors

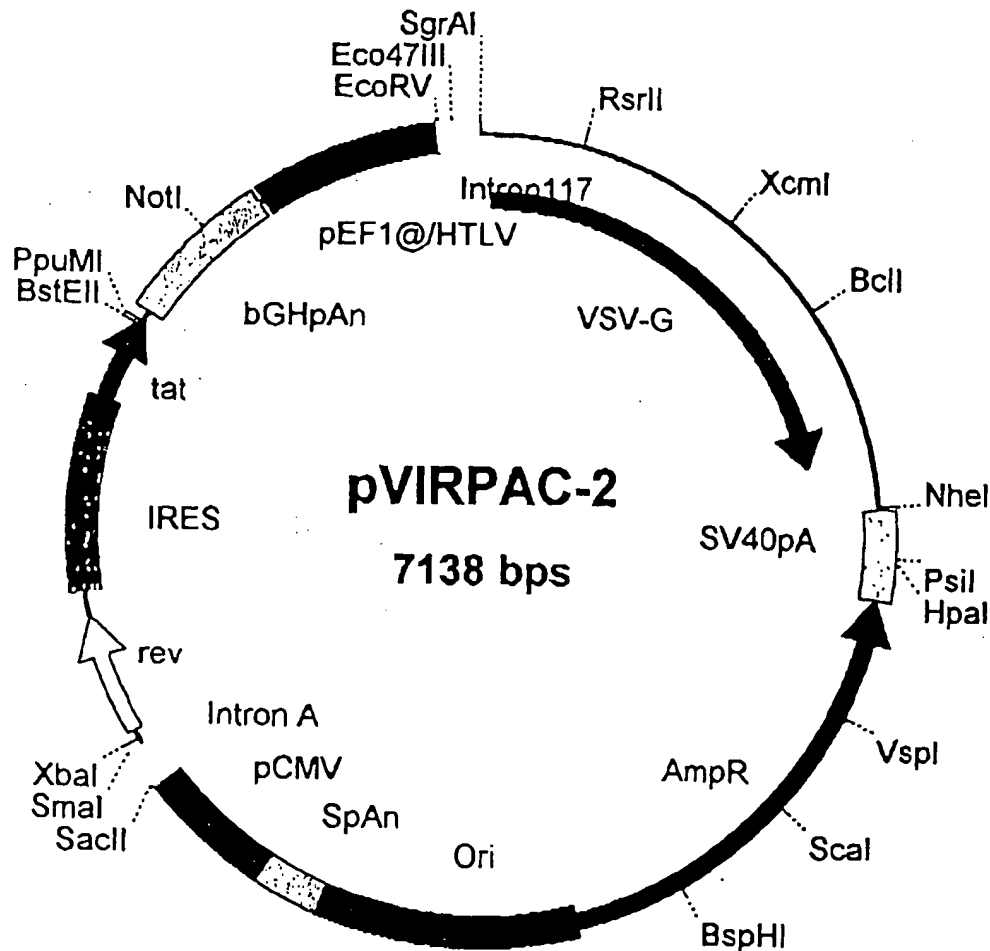
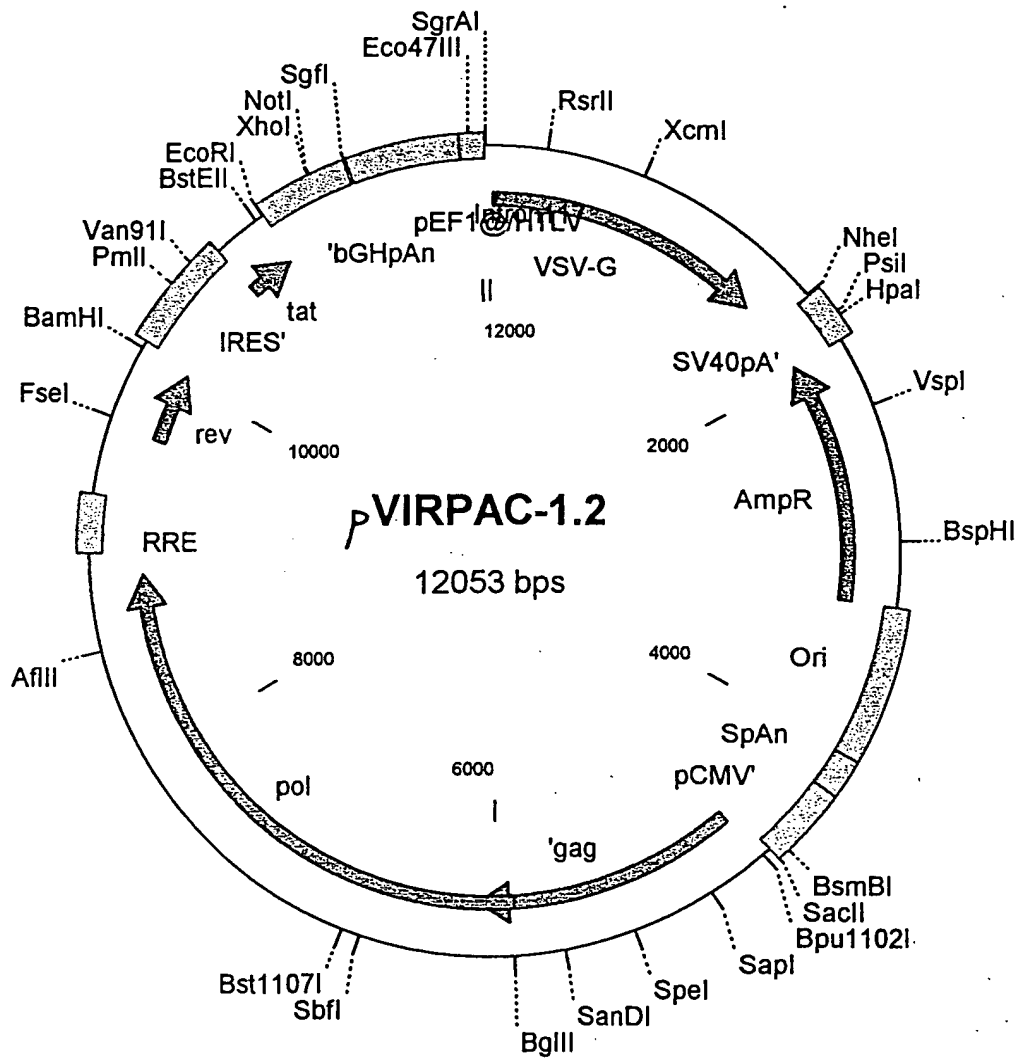


FIG. 6B

Fig 6 D



09849404.032704

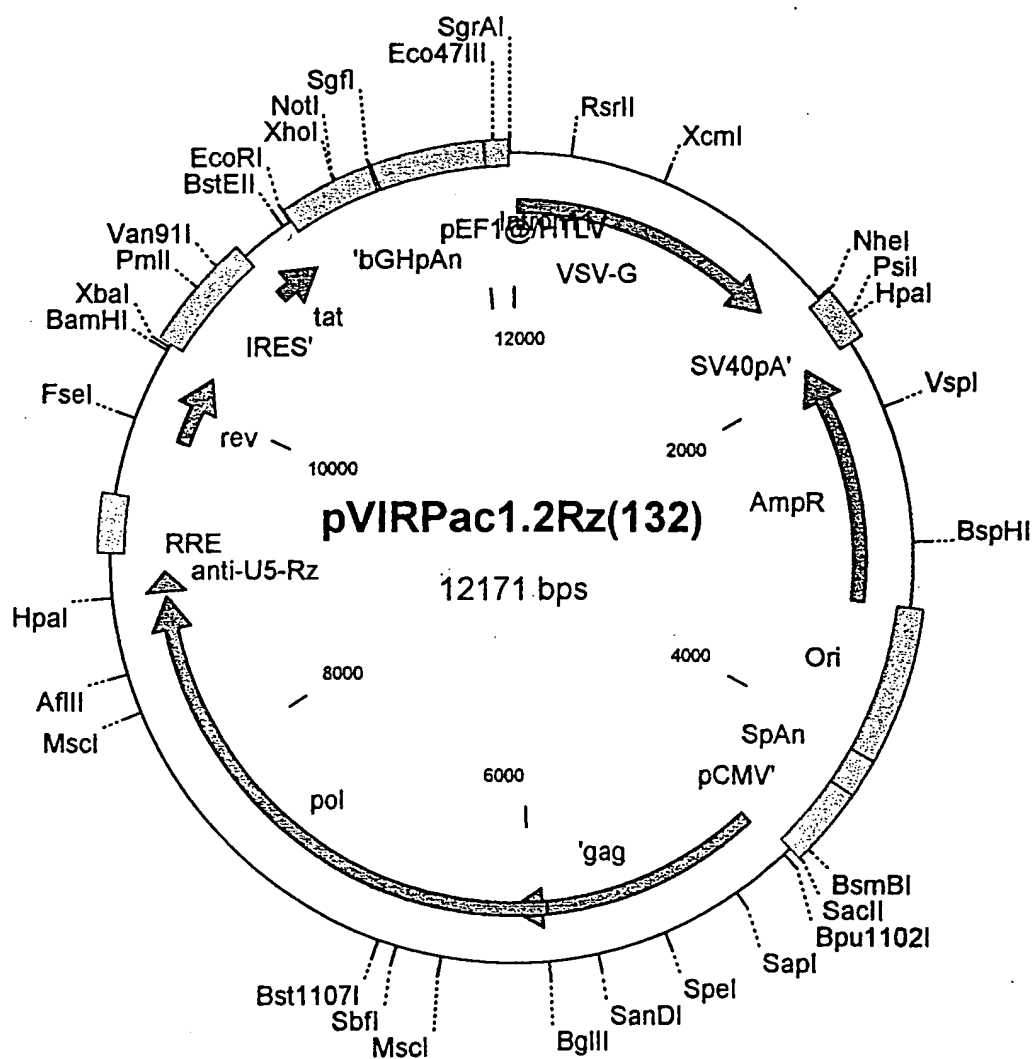
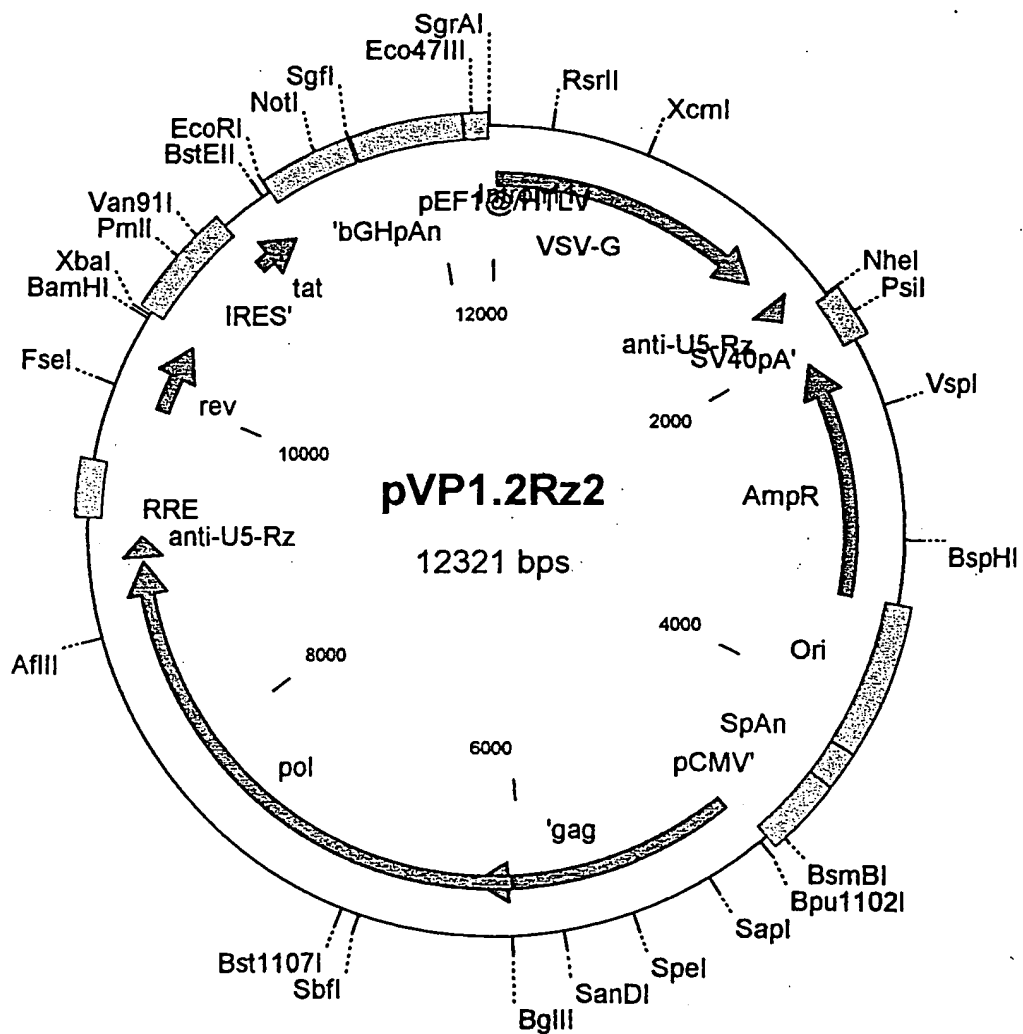
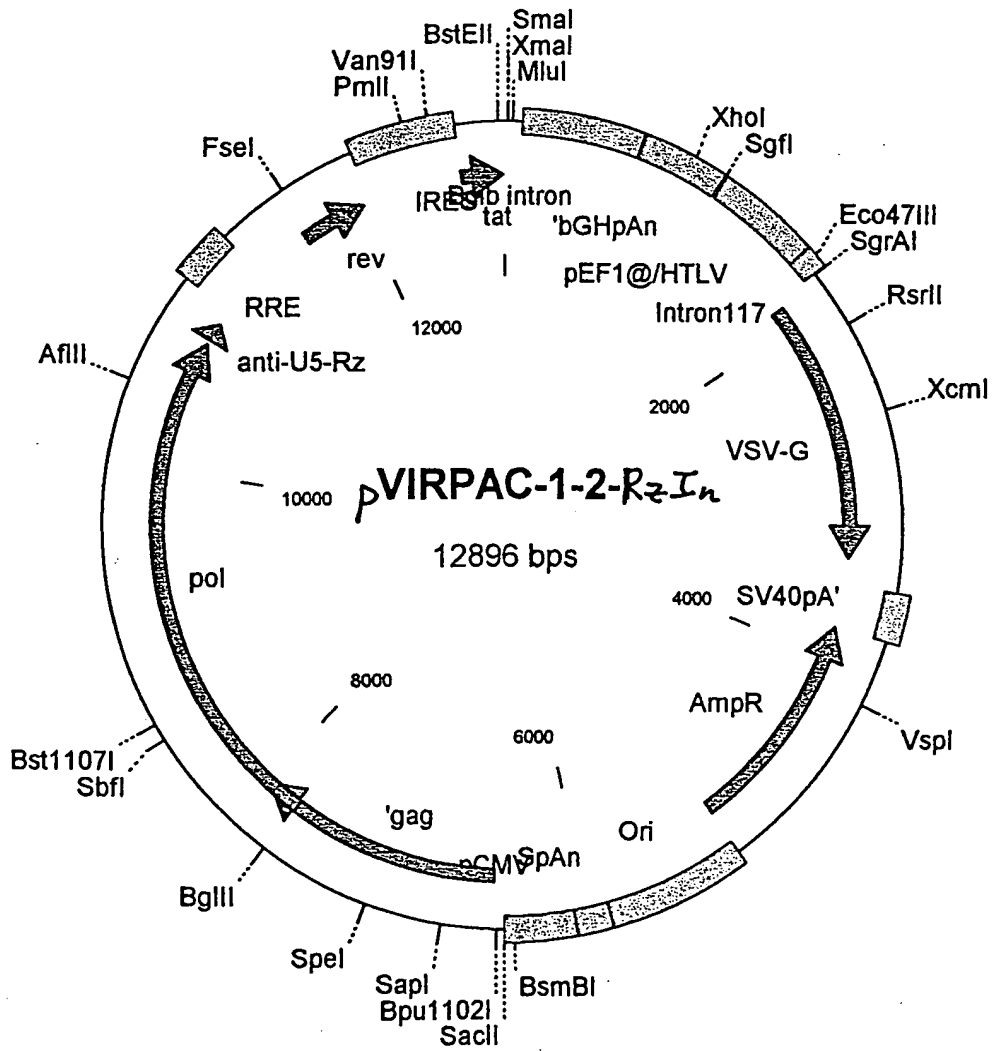


Fig 6F



US945404-0394

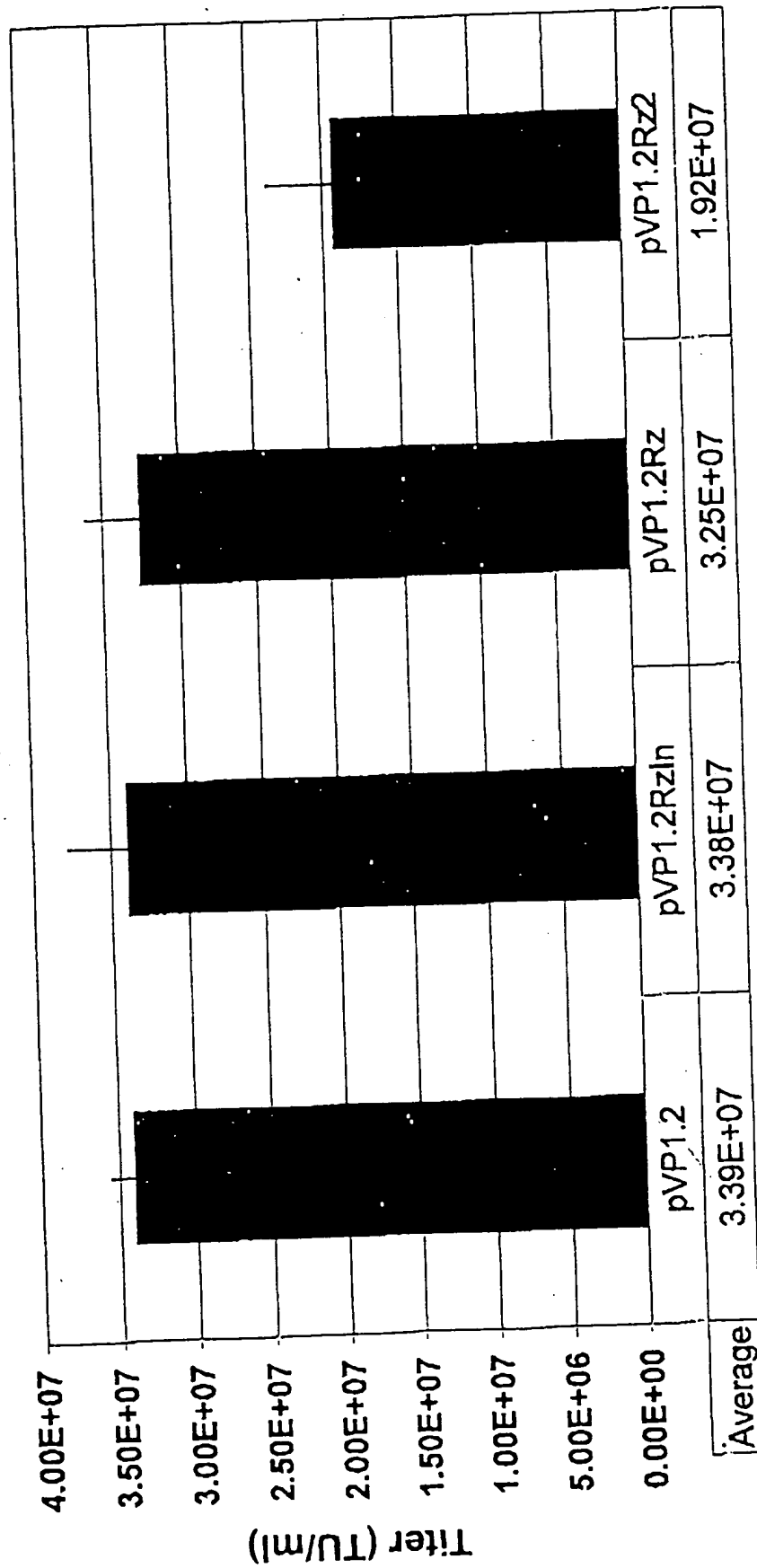
Fig 66



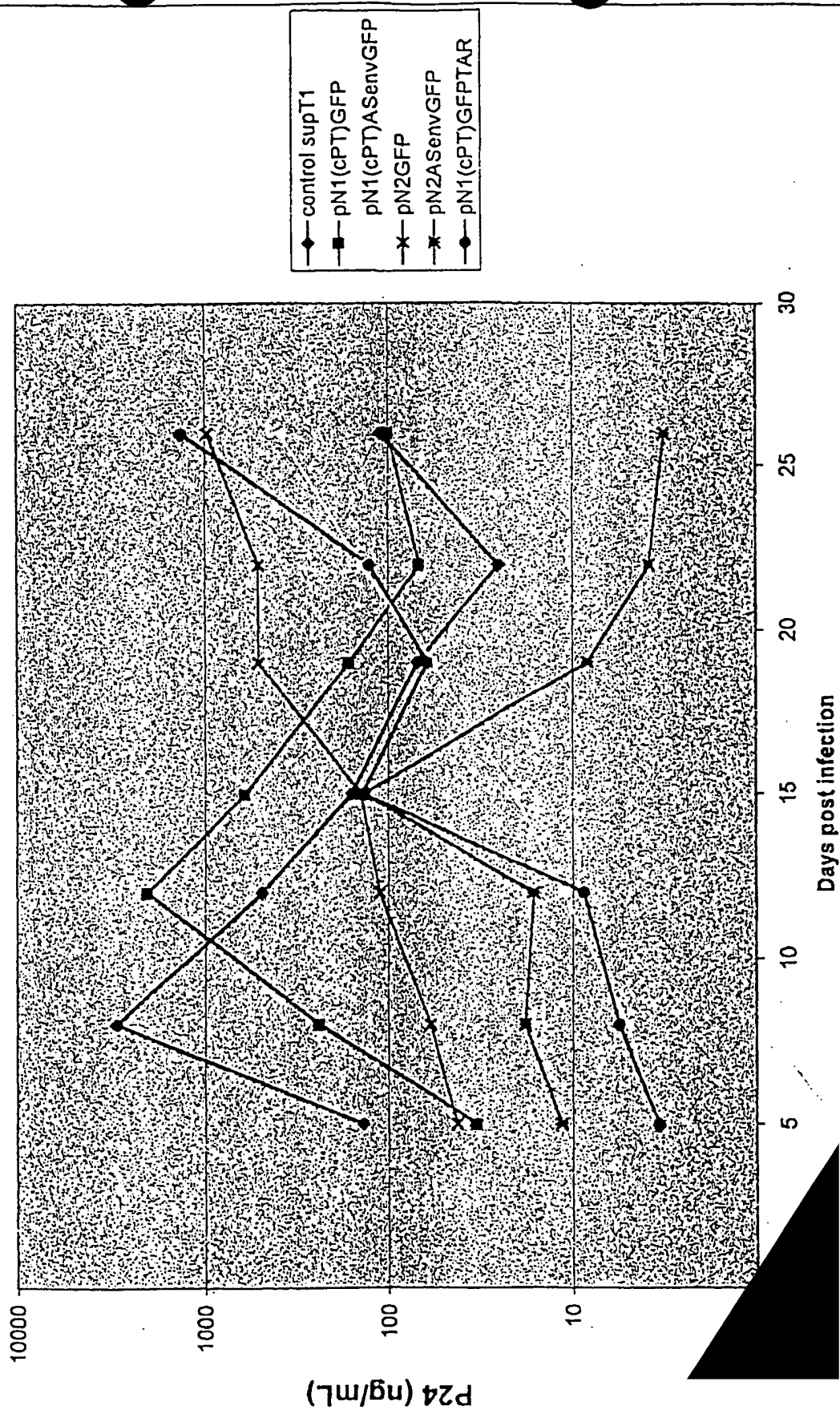
034544-03604

Fig 7

Influence of Ribozyme(s) in the Packaging on pN1(cPT)GFP Vector Titers in HeLa-tat Cells



Challenge #26, MOI 0.1, 100% transduced



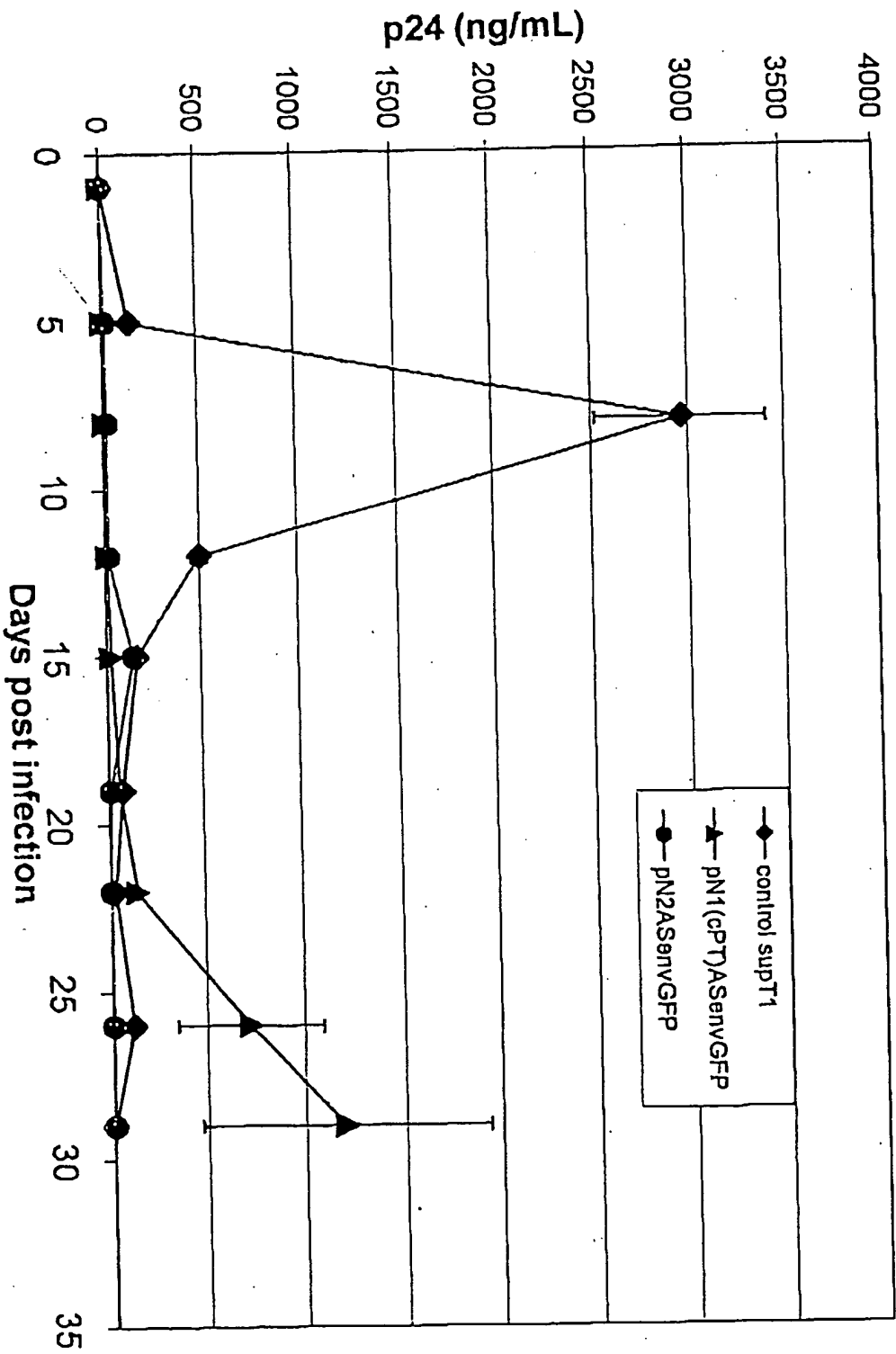
The graph displays p24 levels (ng/mL) on the y-axis (0 to 800) against Days Post Infection with Wild-type HIV on the x-axis (0 to 18). Three data series are plotted:

- control supT1** (diamonds): Shows a significant peak at day 8 (~750 ng/mL) and a secondary peak at day 13 (~50 ng/mL).
- pN1GFP(cpT)VT** (squares): Remains near zero throughout the 18-day period.
- pN2ASenvGFP** (triangles): Remains near zero throughout the 18-day period.

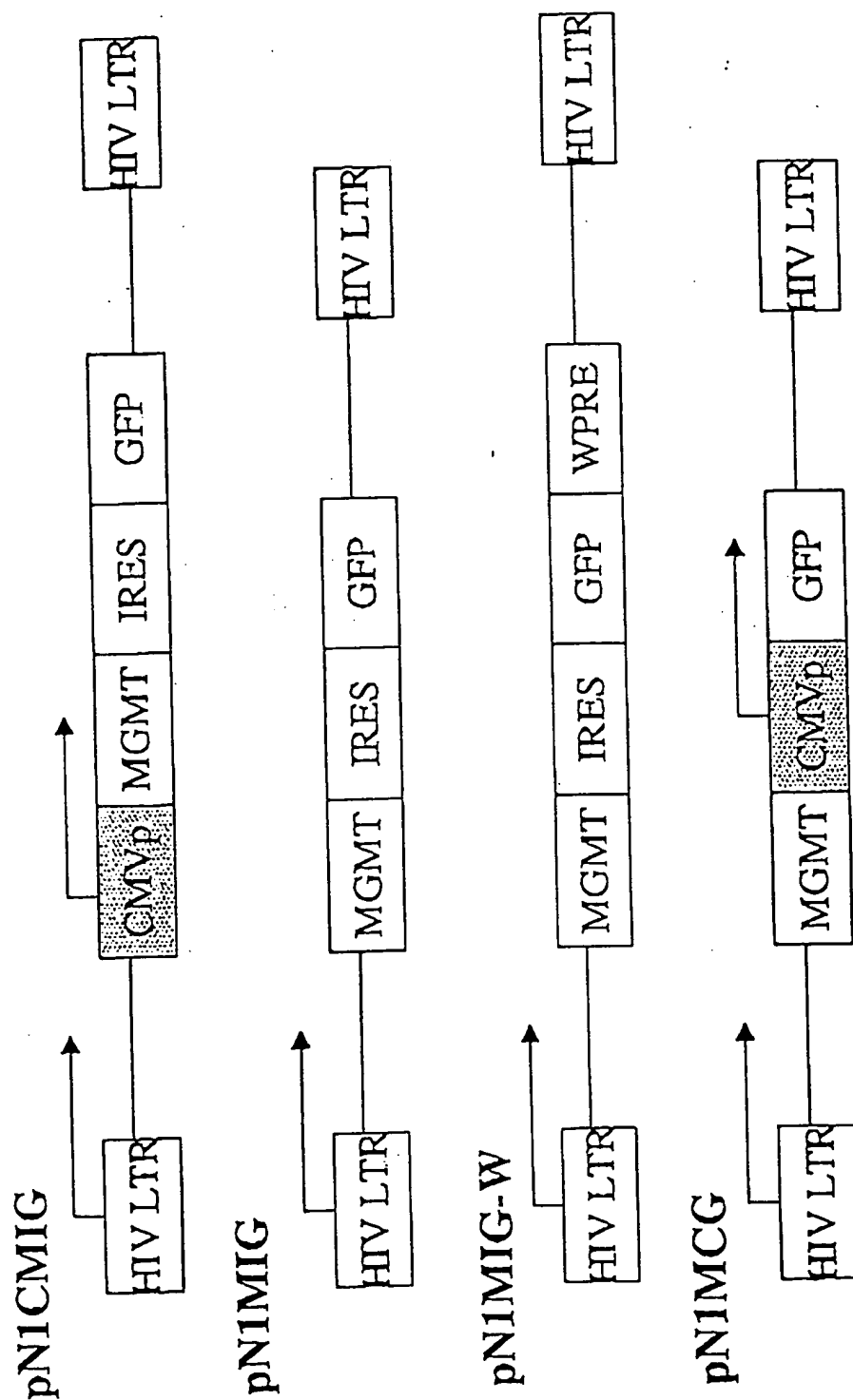
Days Post Infection	control supT1 (ng/mL)	pN1GFP(cpT)VT (ng/mL)	pN2ASenvGFP (ng/mL)
0	~10	~10	~10
2	~10	~10	~10
4	~10	~10	~10
6	~10	~10	~10
8	~750	~10	~10
10	~10	~10	~10
12	~10	~10	~10
13	~50	~10	~10
14	~10	~10	~10
16	~10	~10	~10
18	~10	~10	~10

THE UNIVERSITY OF CHICAGO

by Smartvector Containing T Cells



Introduction



Expansion of SupT1 cells after BG & BCNU

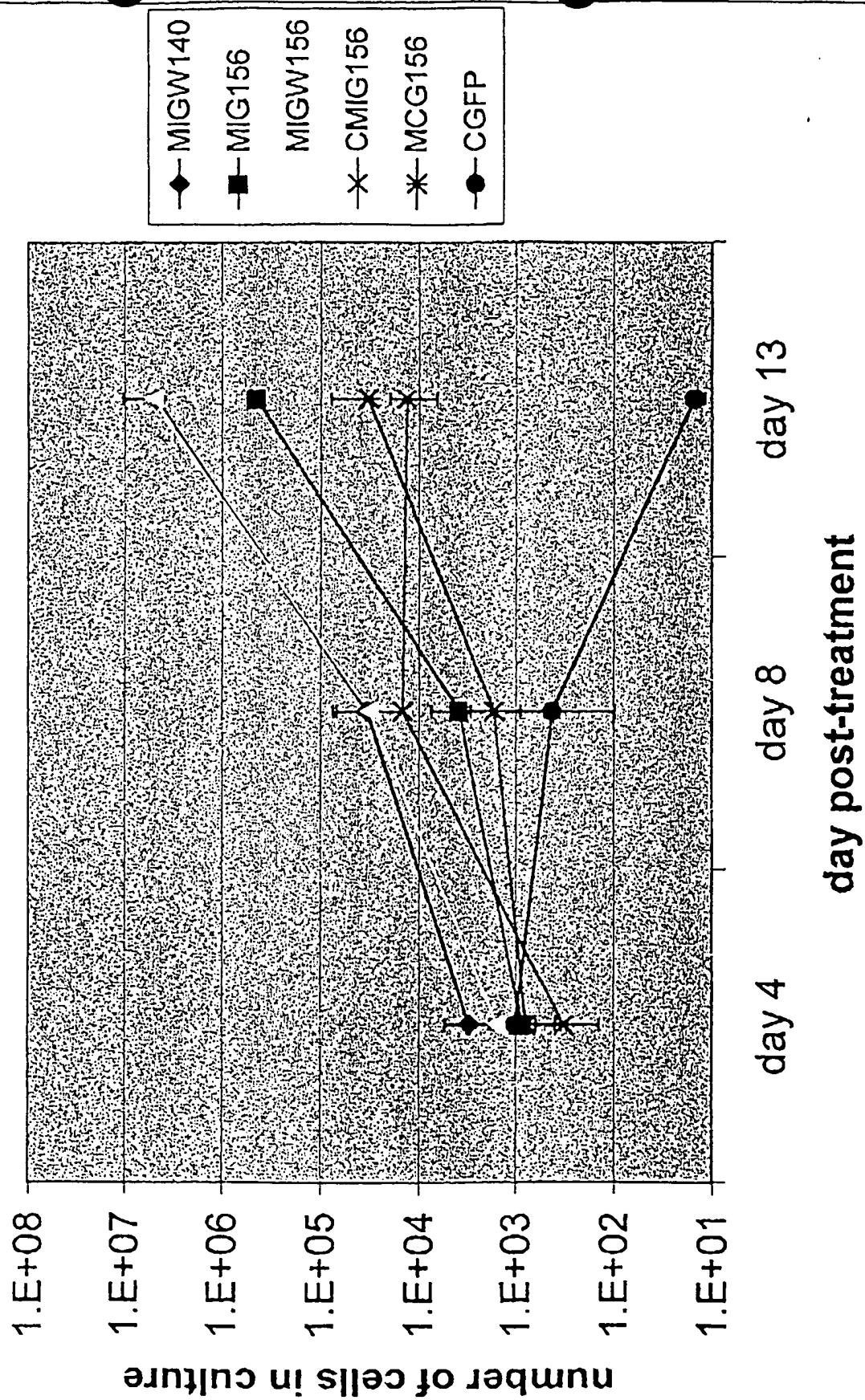
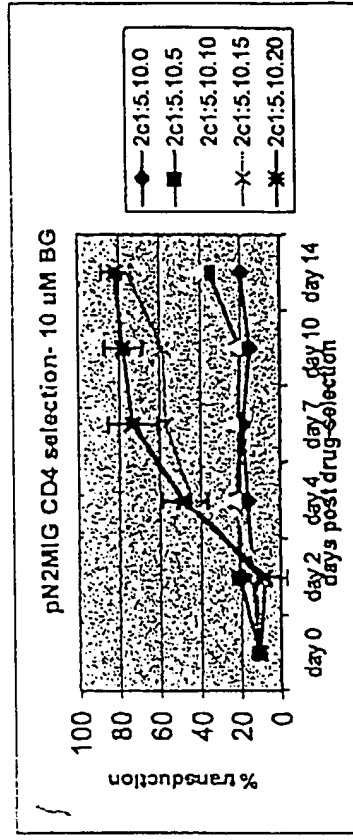
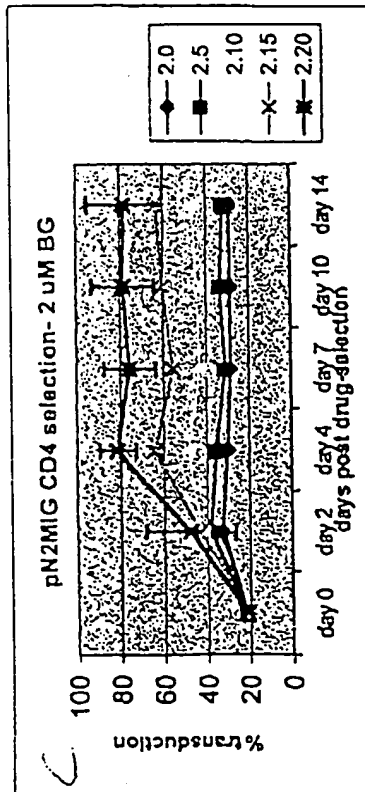
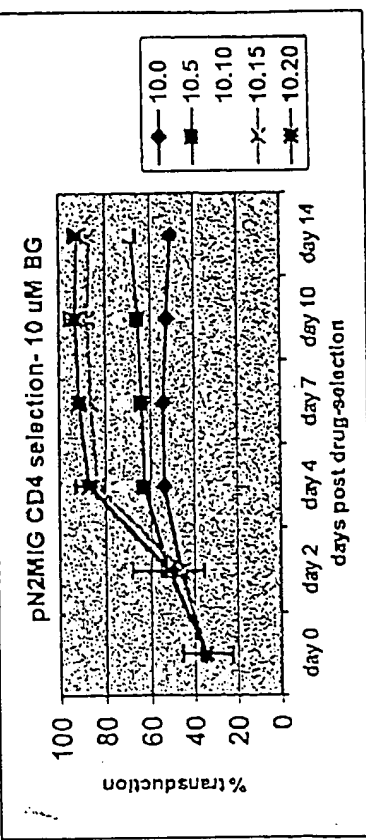
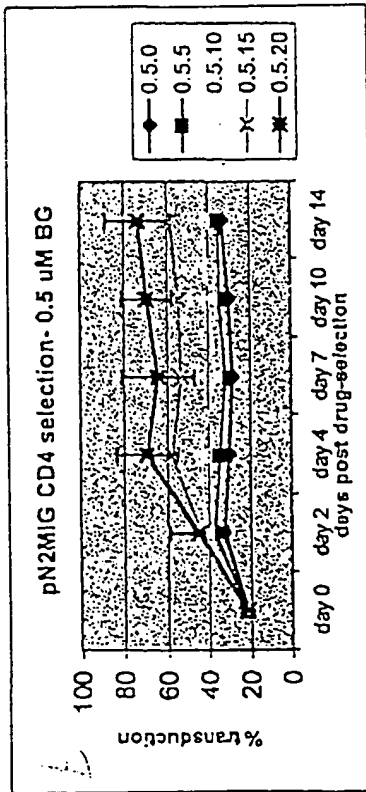
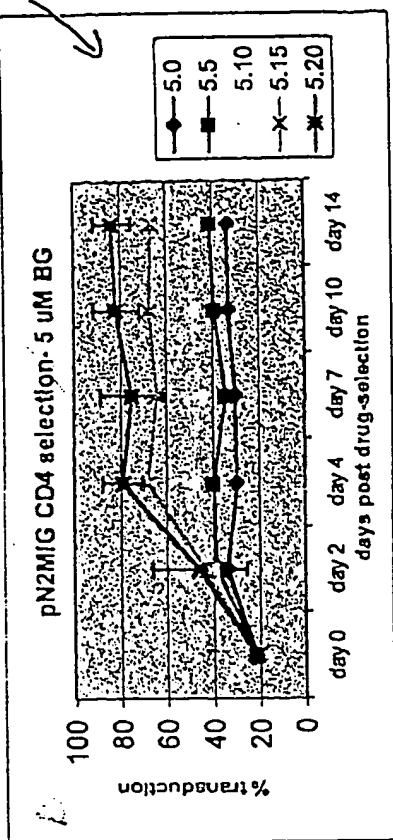
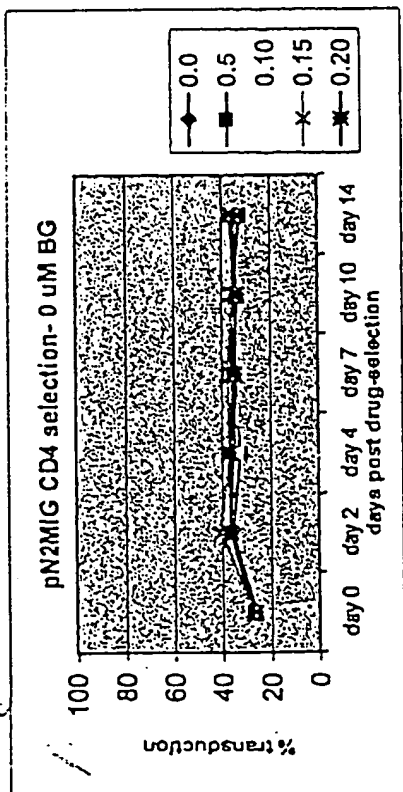
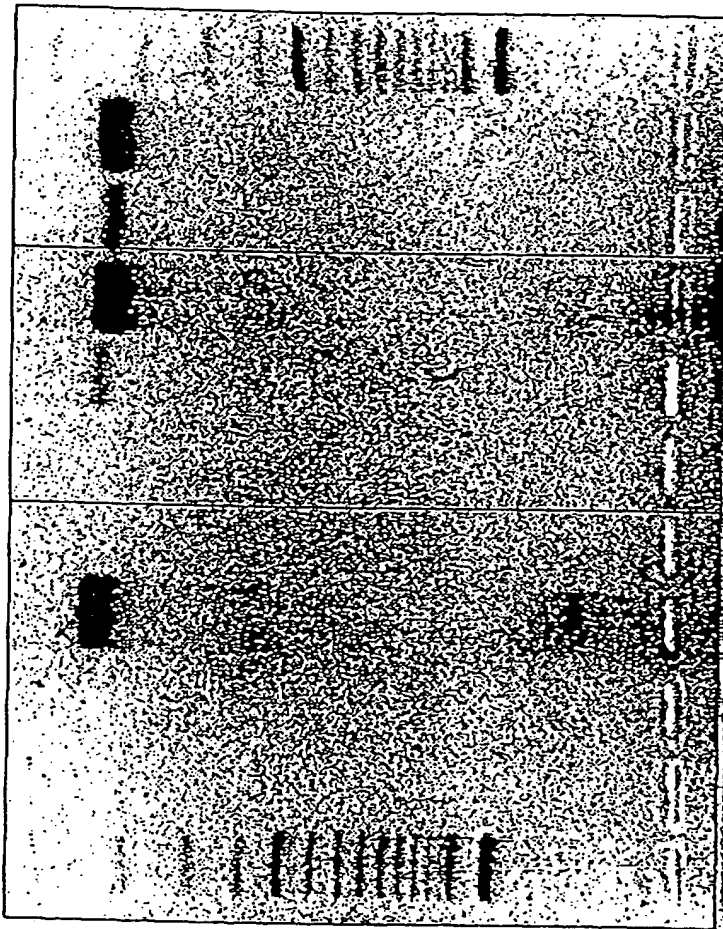


Fig 11





Marker

1 pN1 CGFP 1C exp 30

3 pN1 CGFP 2C exp 30

1-4 pVP1.2

9-12 pVP1.2 Rz

13-16 pVP1.2 Rz2

pNL4-3 with DNase I

pNL4-3 without DNase I

Amp. Neg. Control

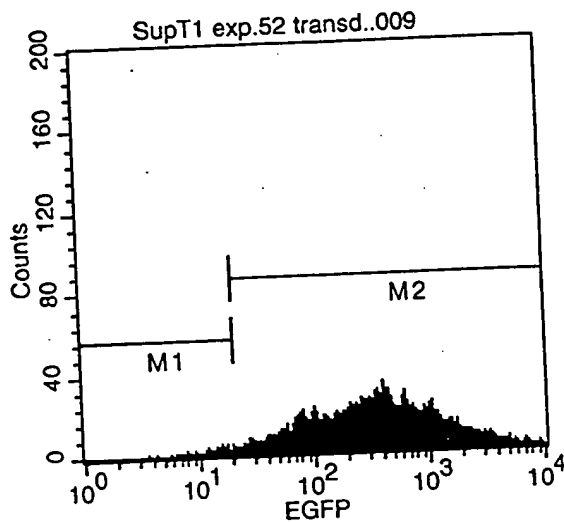
Extraction Neg. Control

Marker

Fig 2

09819404.032704

Fig 13A



Histogram Statistics

File: SupT1 exp.52 transd..009
Tube: pN1(cPT)ASenvGFP 452 a

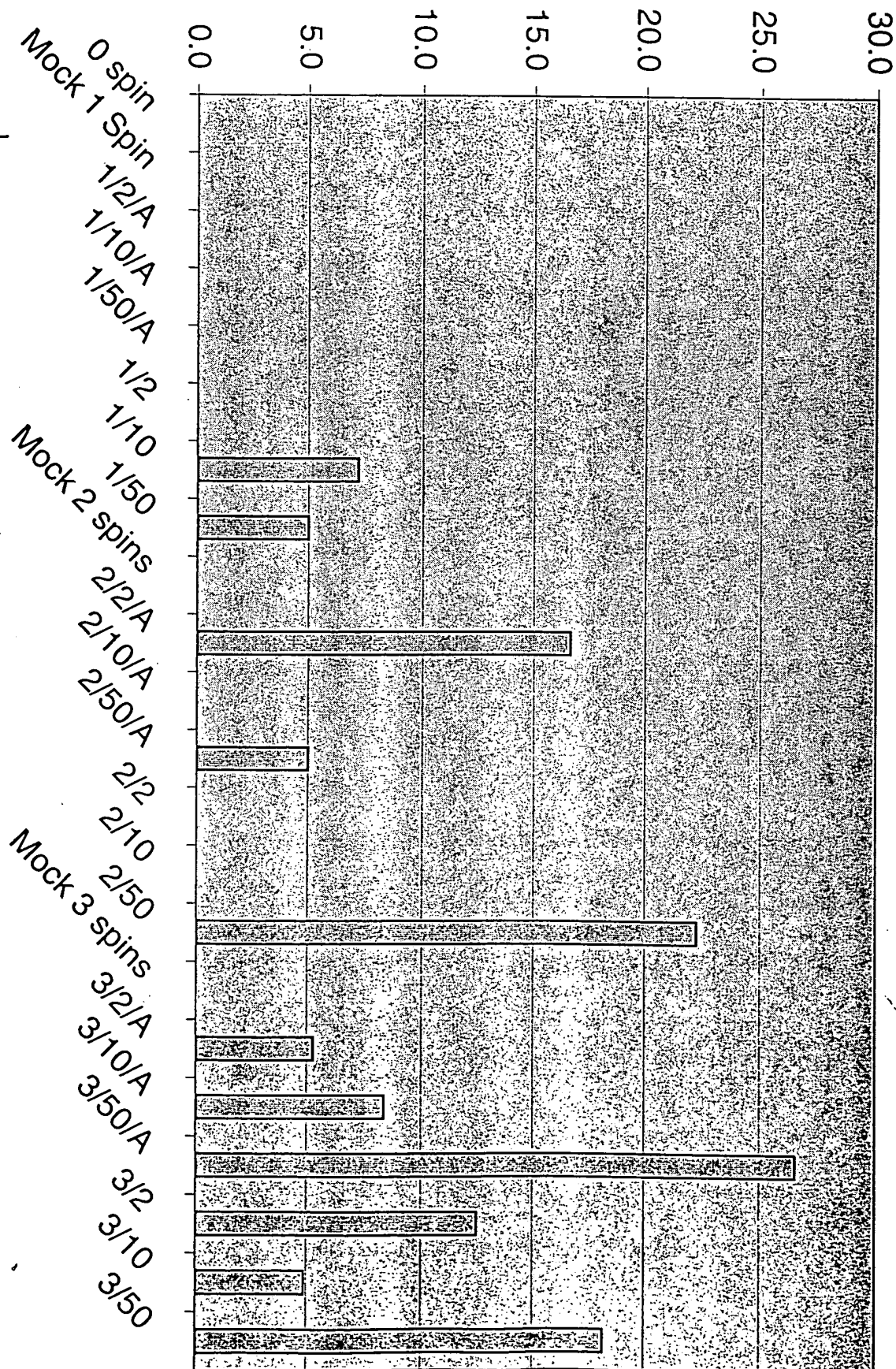
Sample ID: SupT1 ex
Acquisition Date: 25-

Marker	Left, Right	Events	% Gated	% Total	Mean
All	1, 9910	6356	100.00	63.56	570.39
M1	1, 20	95	1.49	0.95	13.86
M2	20, 9910	6262	98.52	62.62	578.74

Fig 132

9 days post-transduction

% GFP+ LTC-IC



1 round

2 round

3 rounds

Fig 14A

Vsv-G, RD114 AND RD114-VSV-G CHIMERIA ENVELOPE PROTEINS

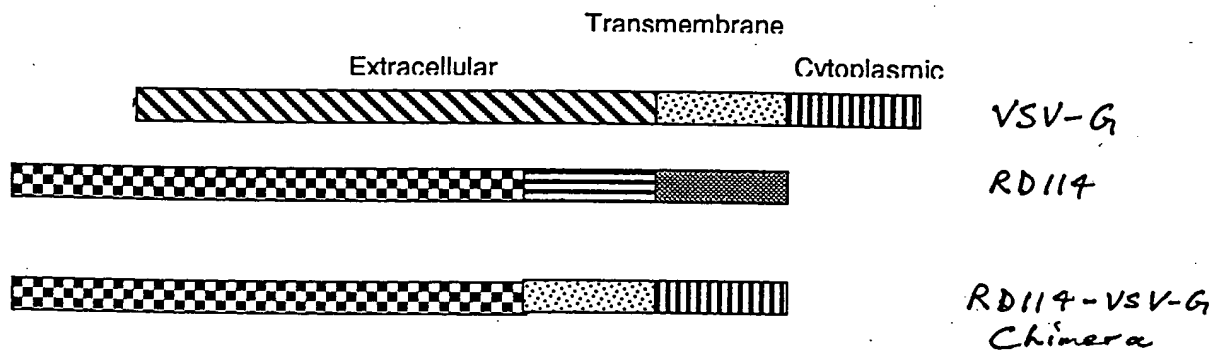


Fig 14B

Titers of RD114-pseudotyped HIV-1 vectors in HT1080

Envelopes	IU/ml
VSV G	3.5x10e6
Rabies virus G	1.6x10e6
RD114WT env	1.5x10e5
RD114E env	3.8x10e4

Fig 15A

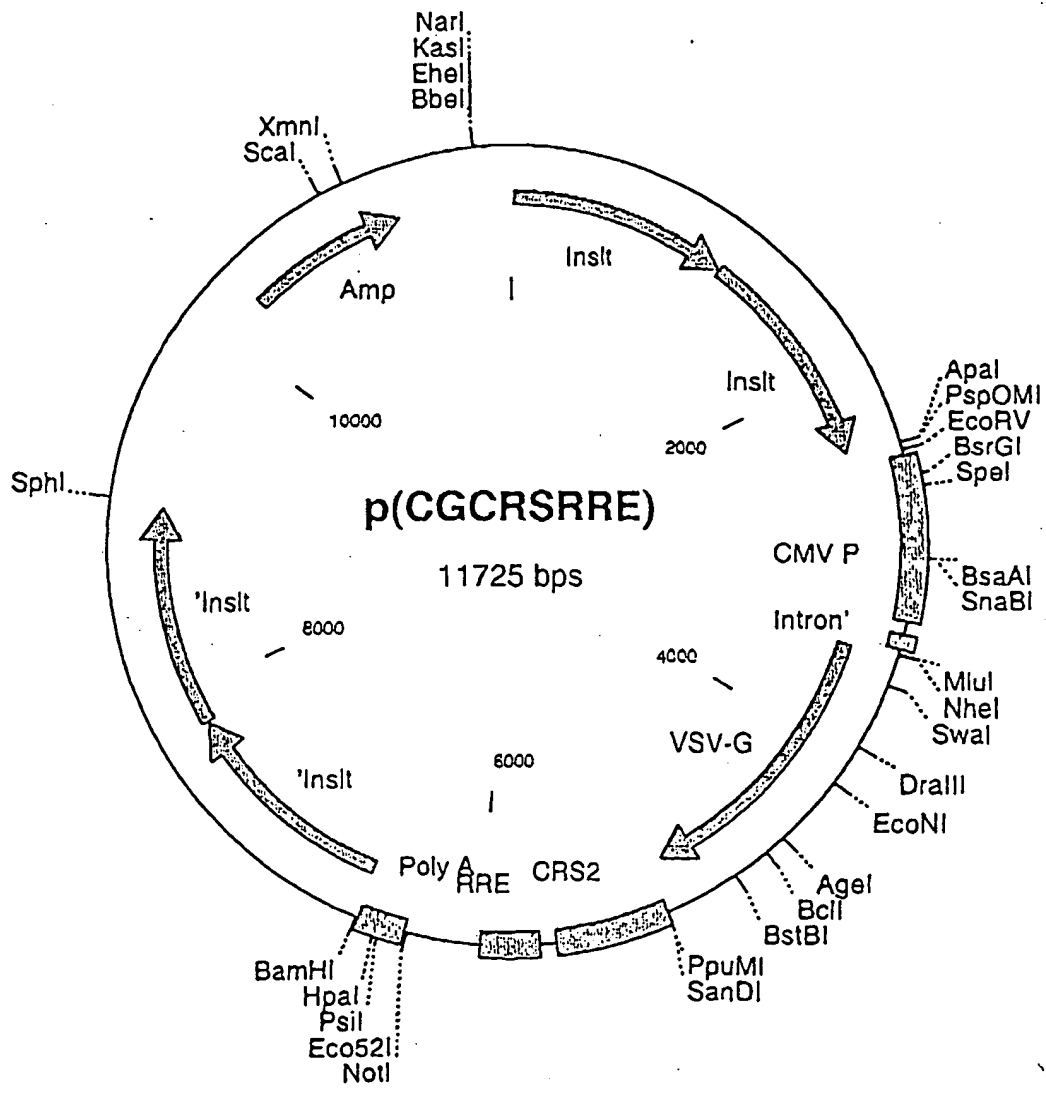


Fig 13A

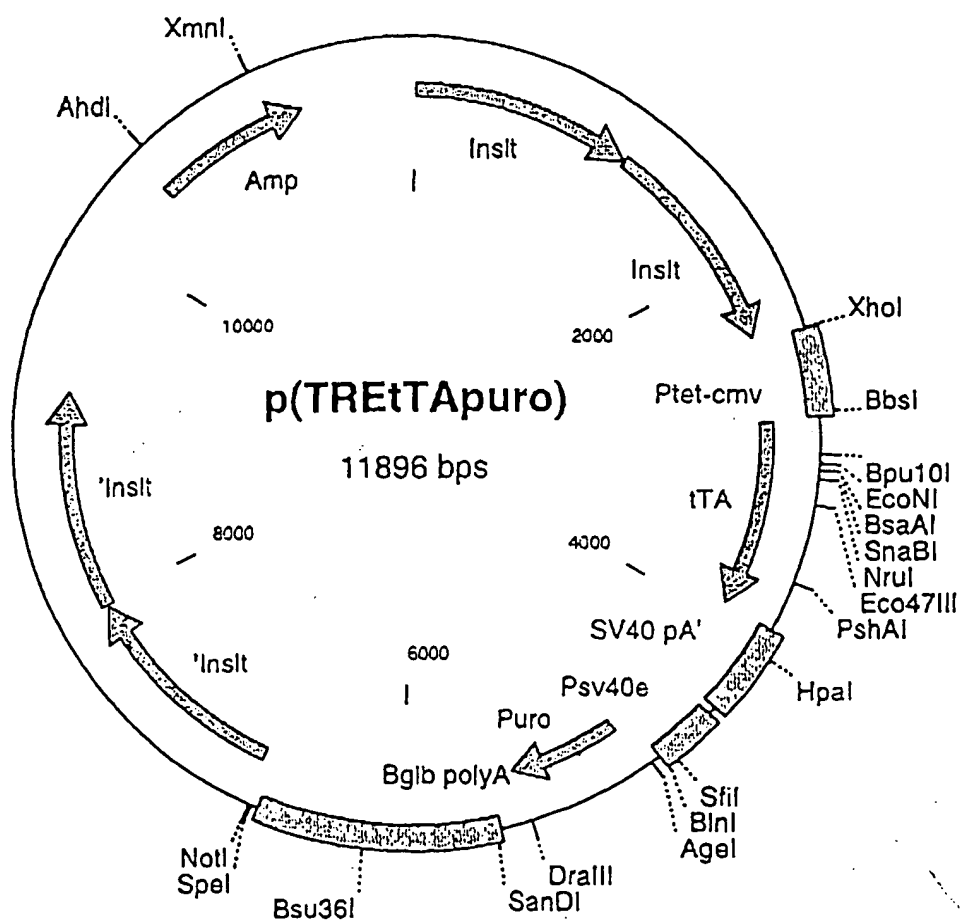
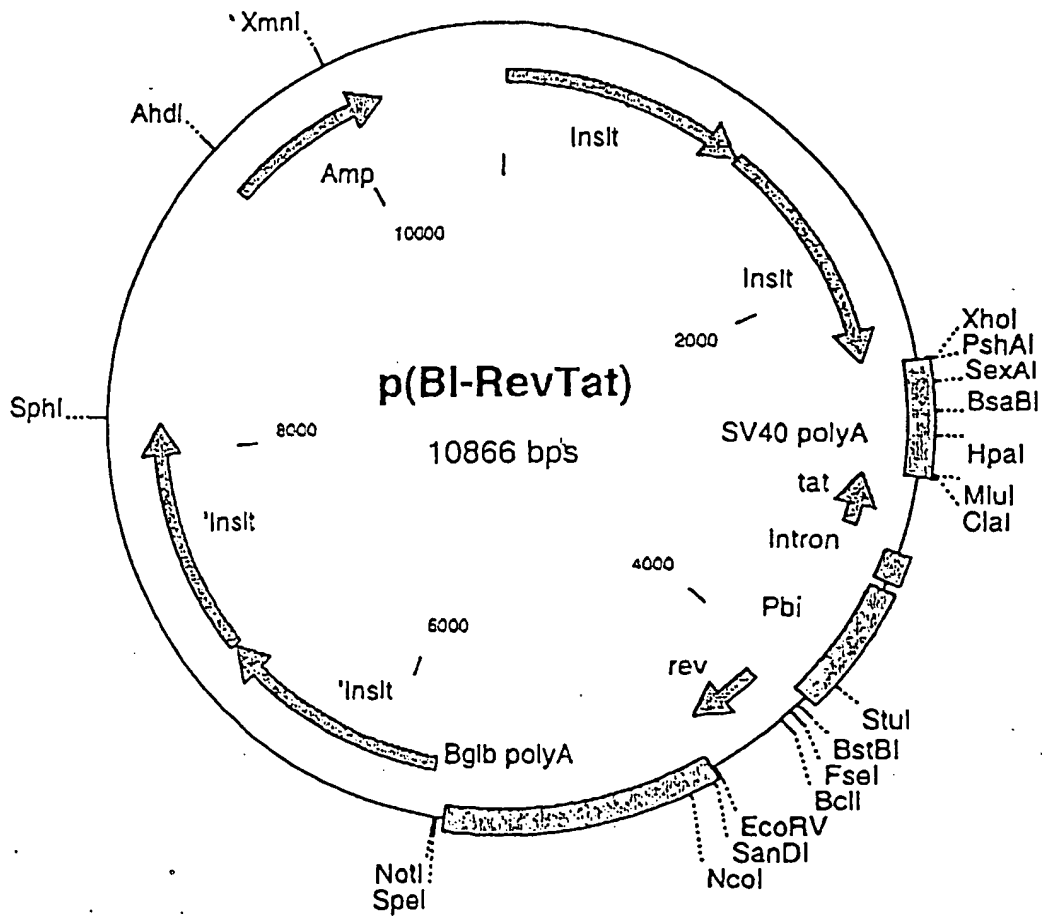


Fig 15C



10866 bp

$\frac{d^2 \mathbf{r}}{dt^2} = -\frac{GM}{r^3} \mathbf{r}$

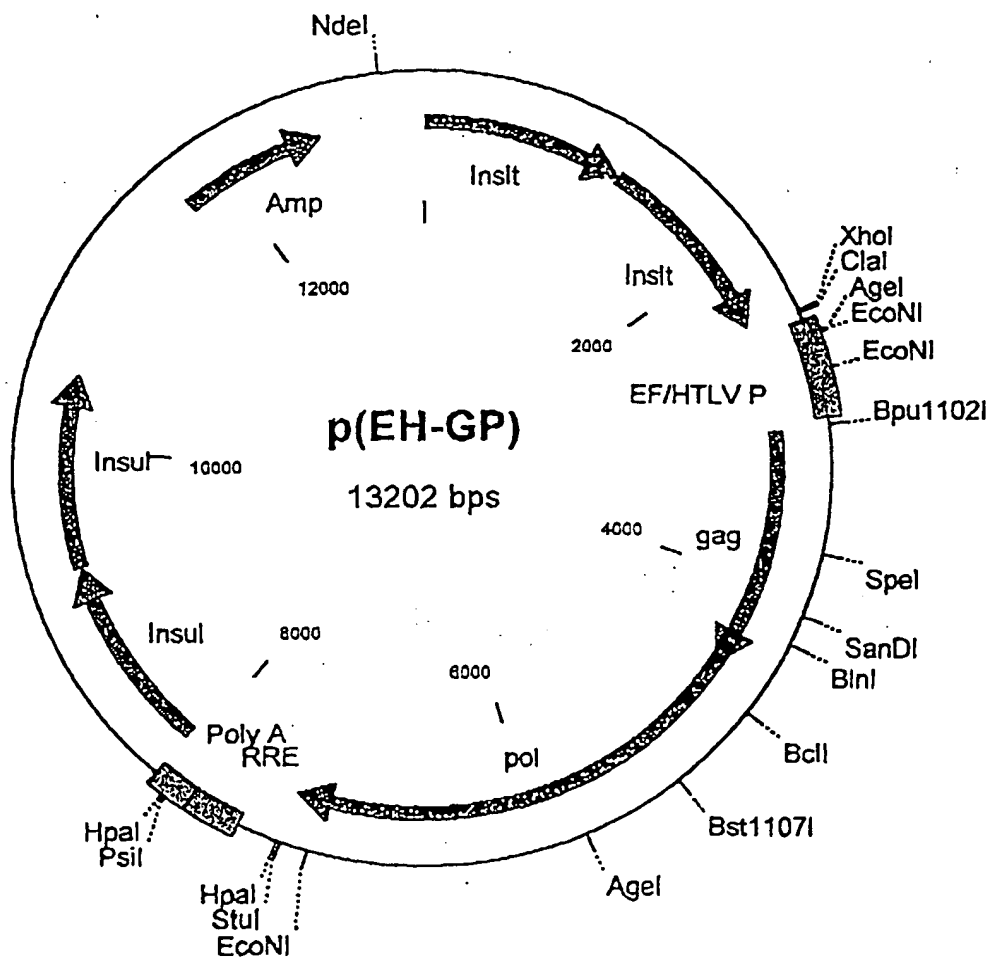


Fig 15E

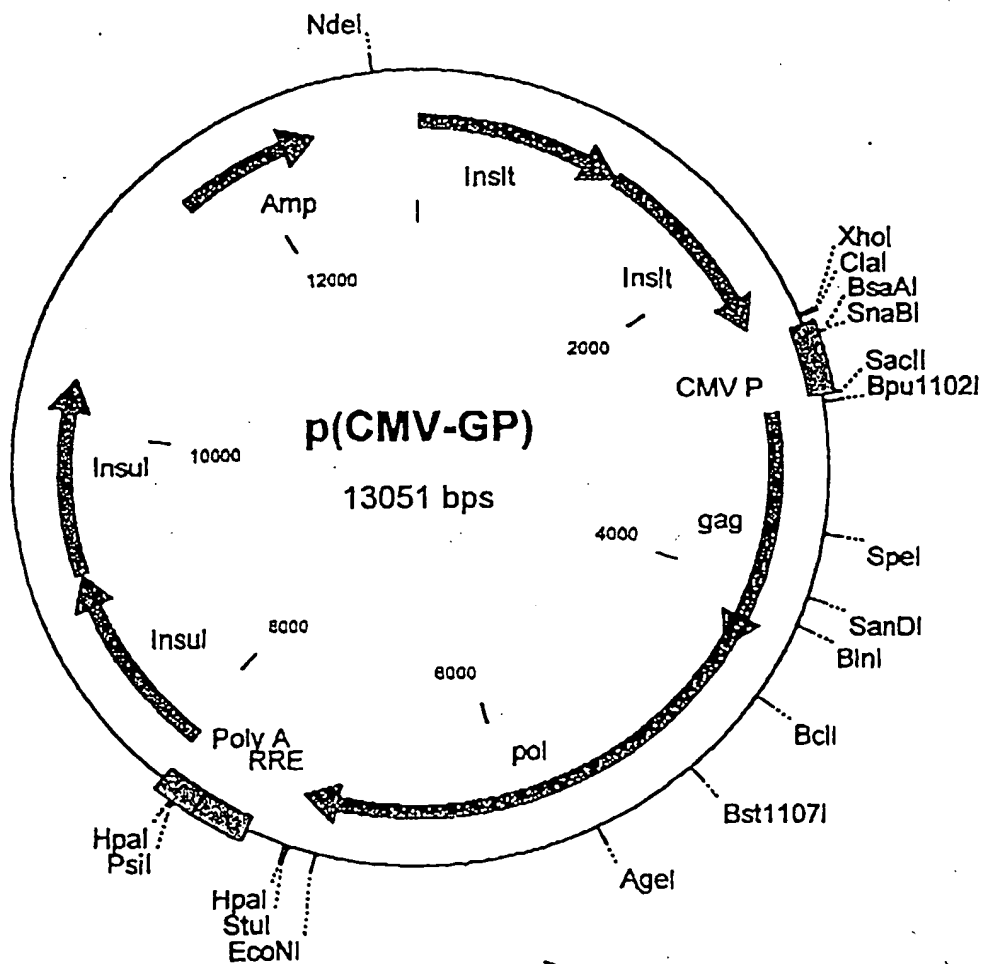


Fig 15F

Rev dependent VSV-G constructs

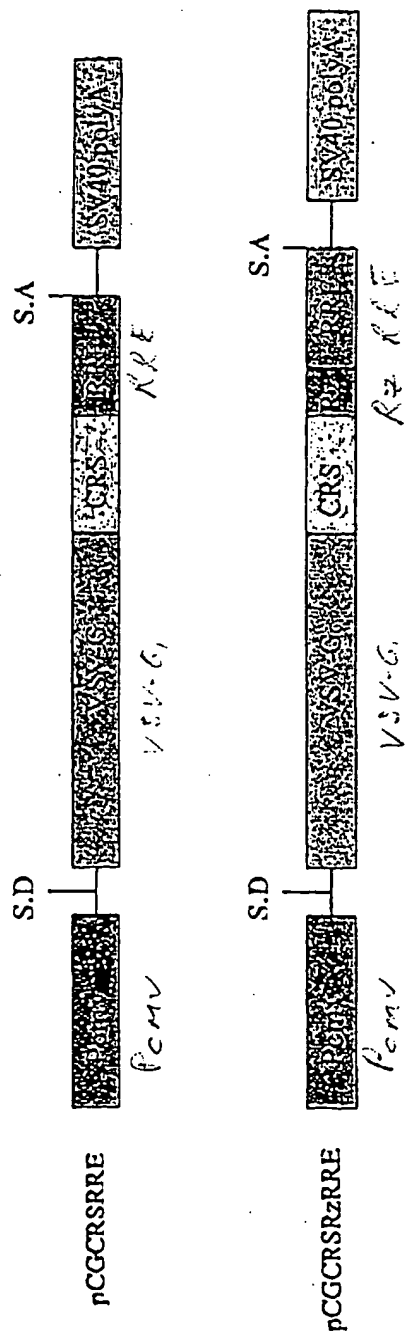
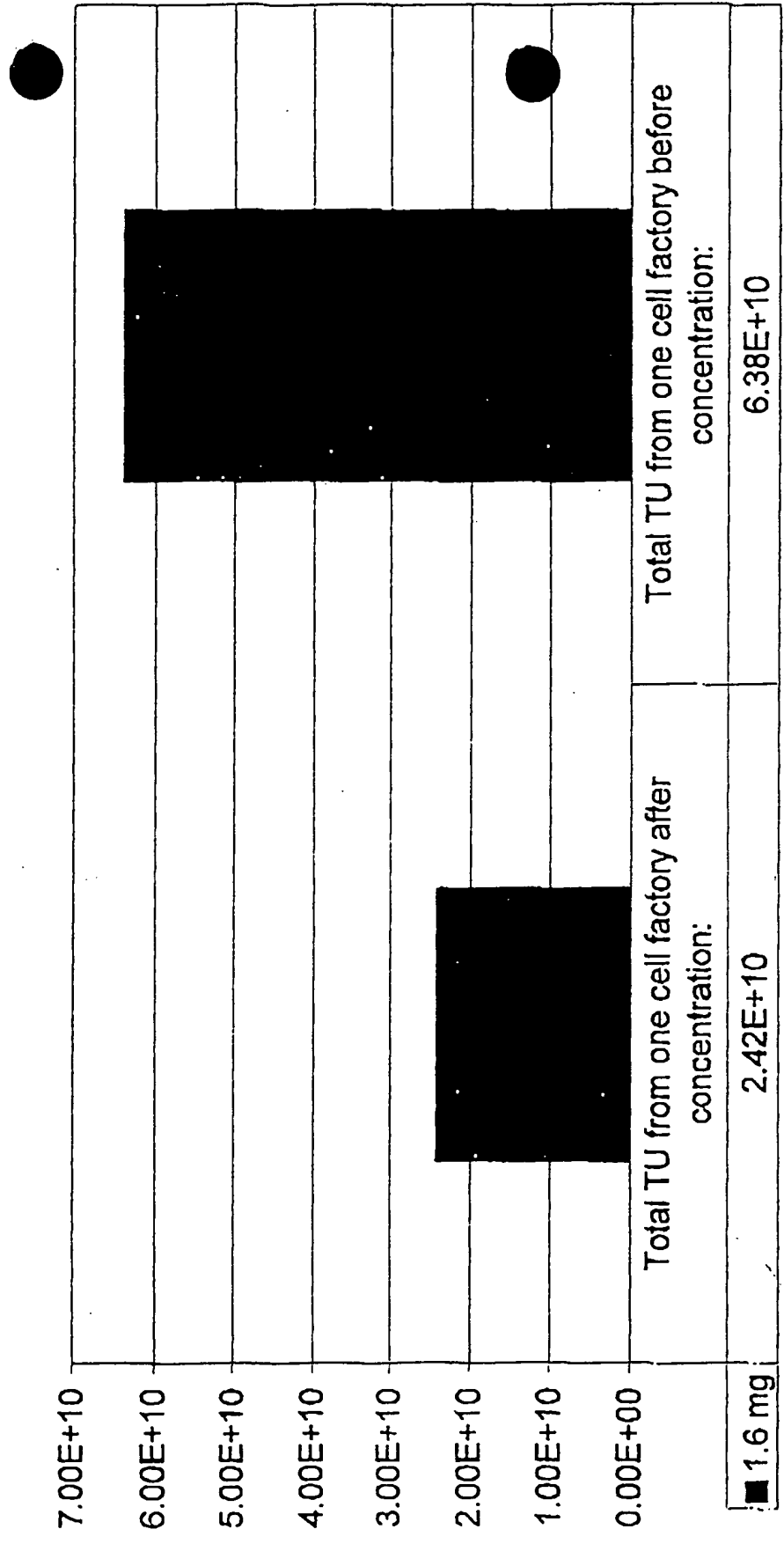


Figure 2

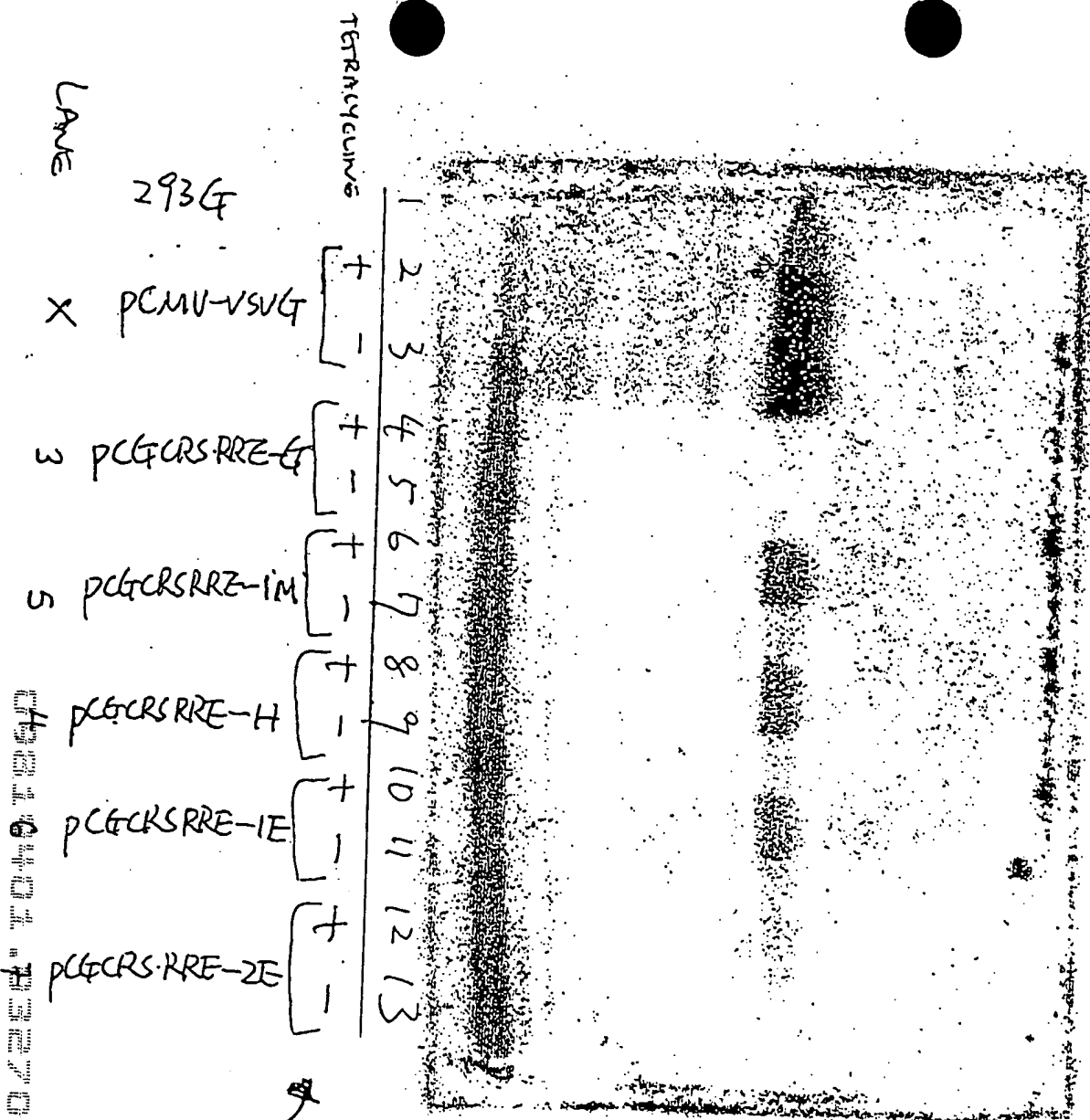
Yield of pN1(cPT)GFP Vectors per Cell Factory before and after Concentration in HeLa-tat Cells.



AFTER
CONCENTRATION

BEFORE
CONCENTRATION

Fig 17



+ = pCMV-Rev

- = PCI

G = β -globin SD

IM-HIV-1 major SD

IM-Human α -globin SD

IE-HIV-1 env SD

2E-HIV-2 env SD

REMOVES TETRACYCLINE
TO INDUCE EXPRESSION OF VSV-G
THAT IS ~~DEPENDENT~~ DEPENDENT.

F. 18

Influence of the Buffer on Vector Recovery after Storage for 3-5 Weeks at Different Temperatures

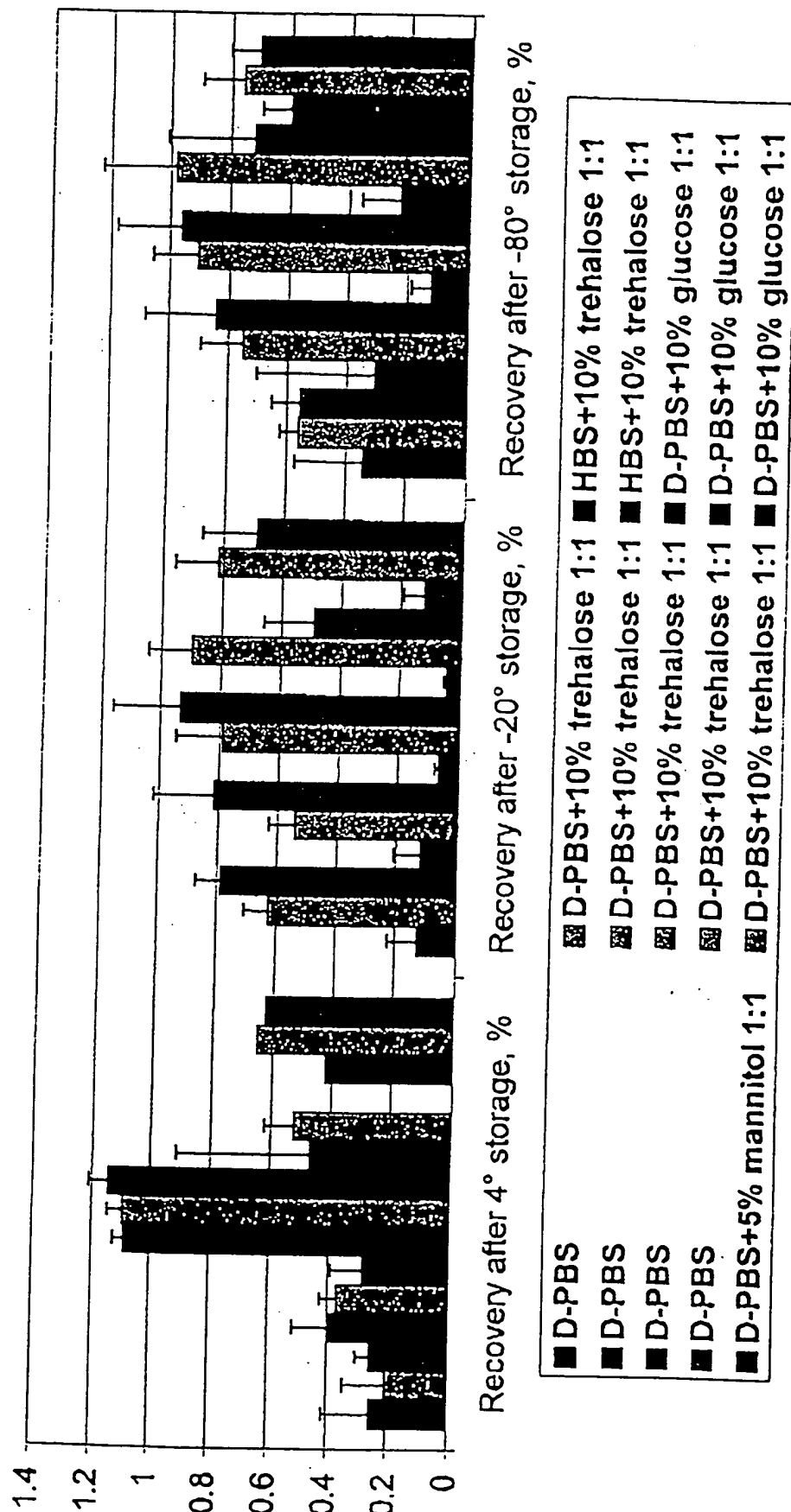


Figure 19

